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	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.10	-3.10

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STRUCTURE FILE UPDATES: 19 JAN 2002 HIGHEST RN 384793-11-7
DICTIONARY FILE UPDATES: 19 JAN 2002 HIGHEST RN 384793-11-7

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

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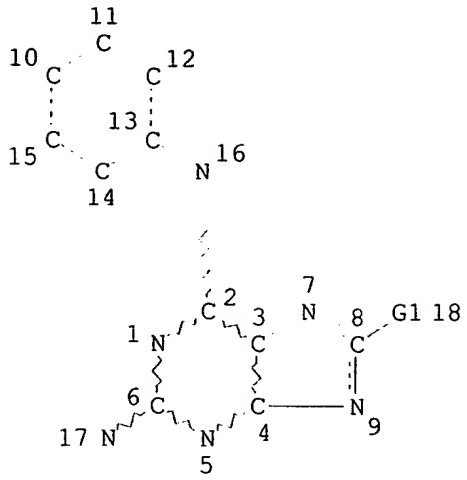
Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> d l7 que stat;d l7 ide cbib abs 1-107;fil caol;s l7
L1 STR

Searched by: Mary Hale 308-4258 CM-1 12D16

Bench
927322
pt 1/2



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DEFAULT ECLEVEL IS LIMITED

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STEREO ATTRIBUTES: NONE
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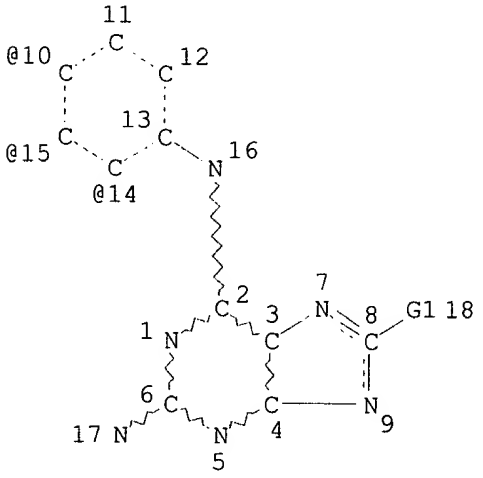
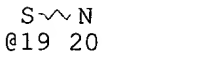
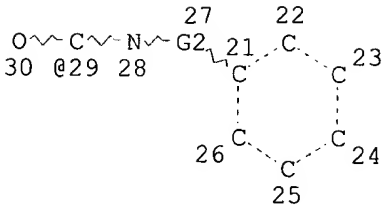
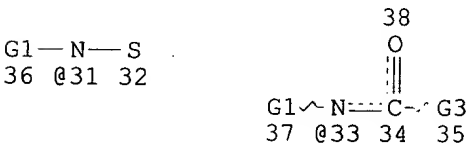
L4 STR









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REP G2=(0-10) CH
VAR G3=O/C
VAR G4=19/29/31/33

Searched by: Mary Hale 308-4258 CM-1 12D16

VPA 39-14/15/10 U
NODE ATTRIBUTES:
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NSPEC IS RC AT 20
DEFAULT MLEVEL IS ATOM
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GRAPH ATTRIBUTES:
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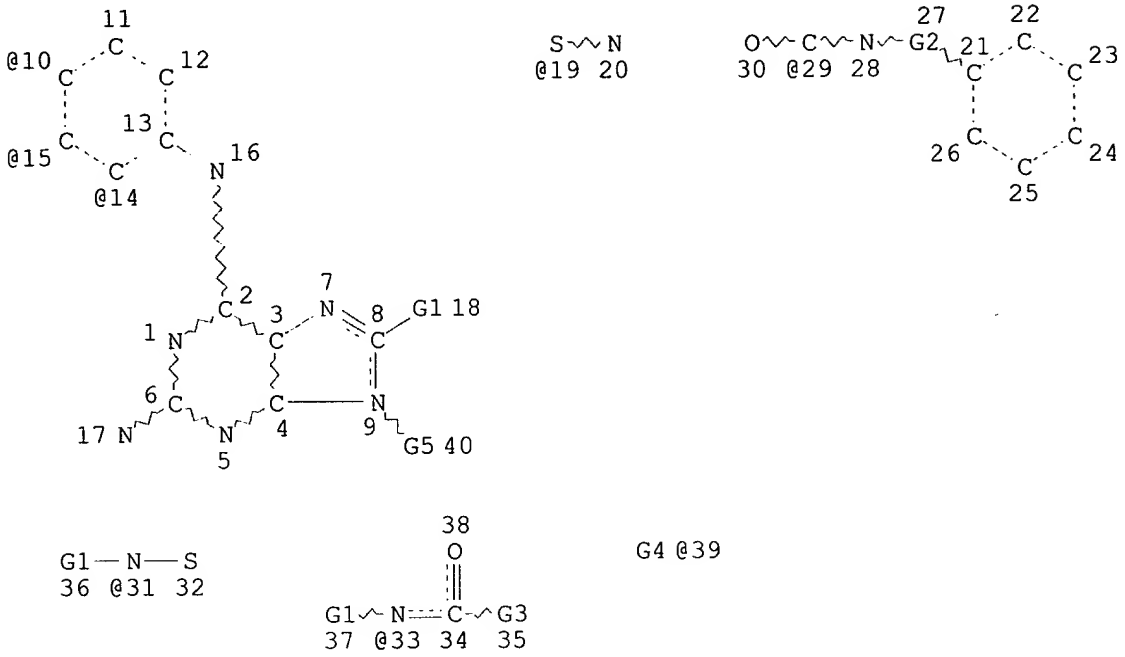
L6 STR



VAR G1=H/ME
REP G2=(0-10) CH
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NODE ATTRIBUTES:
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NSPEC IS RC AT 20
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

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STEREO ATTRIBUTES: NONE
L7 107 SEA FILE=REGISTRY SUB=L5 SSS FUL L6

100.0% PROCESSED 109 ITERATIONS 107 ANSWERS
SEARCH TIME: 00.00.02

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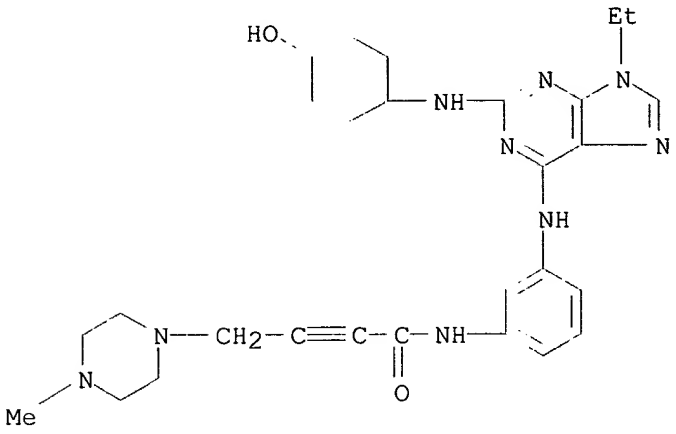
L7 ANSWER 1 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289480-12-2 REGISTRY
CN 2-Butynamide, N-[3-[[9-ethyl-2-[(4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-4-(4-methyl-1-piperazinyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C28 H37 N9 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER



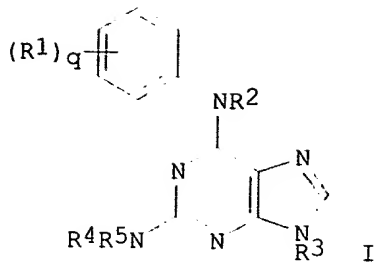
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI

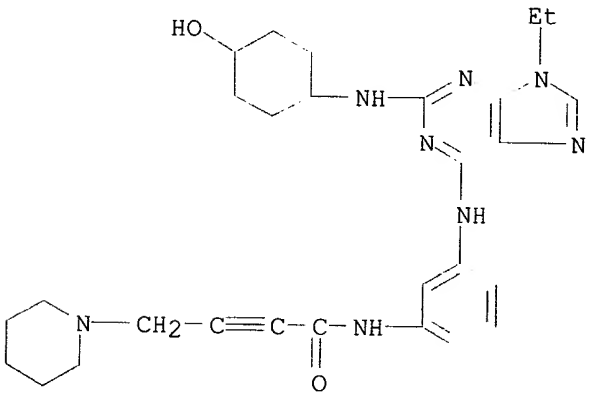
Searched by: Mary Hale 308-4258 CM-1 12D16



I

AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 2 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289480-11-1 REGISTRY
CN 2-Butynamide, N-[3-[[9-ethyl-2-[(4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-4-(1-piperidinyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C28 H36 N8 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis

Searched by: Mary Hale 308-4258 CM-1 12D16

A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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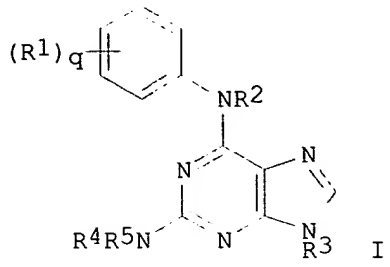

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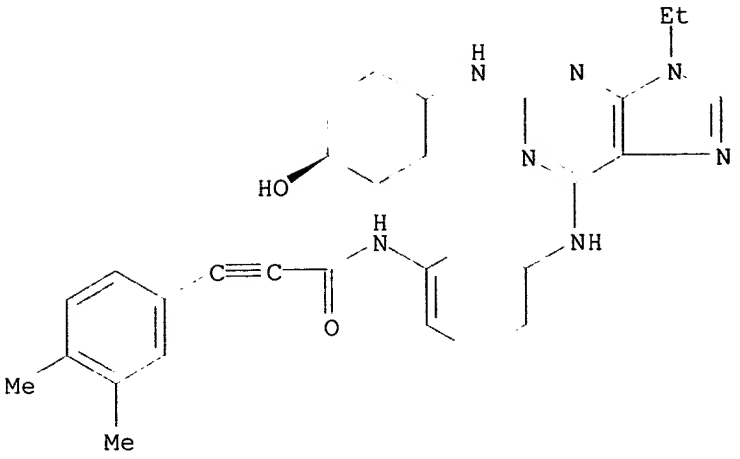
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 3 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289480-10-0 REGISTRY
CN 2-Propynamide, 3-(3,4-dimethylphenyl)-N-[3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C30 H33 N7 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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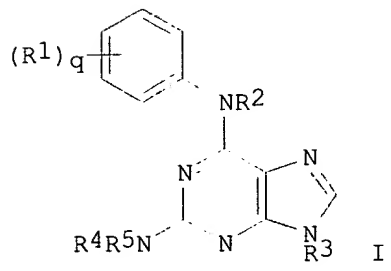

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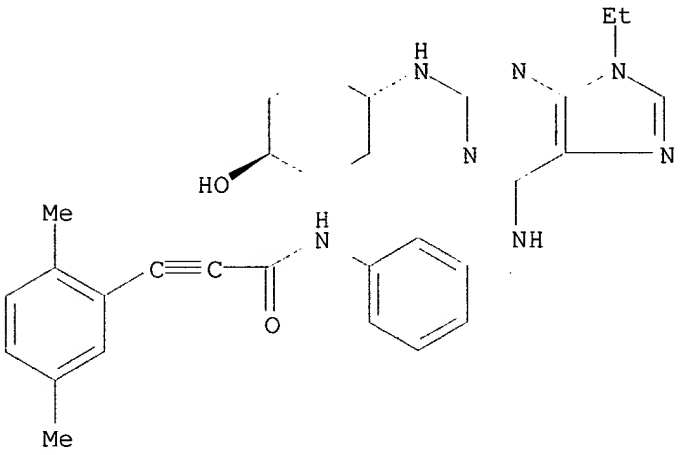
heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 4 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289480-09-7 REGISTRY
CN 2-Propynamide, 3-(2,5-dimethylphenyl)-N-[3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C30 H33 N7 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.
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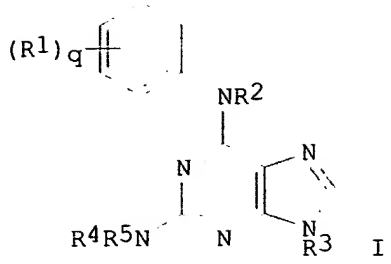
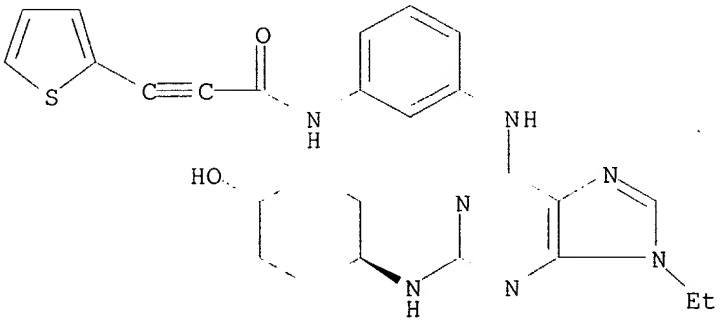
Searched by: Mary Hale 308-4258 CM-1 12D16



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 5 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289480-08-6 REGISTRY
CN 2-Propynamide, N-[3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-3-(2-thienyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C26 H27 N7 O2 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB,

Searched by: Mary Hale 308-4258 CM-1 12D16

BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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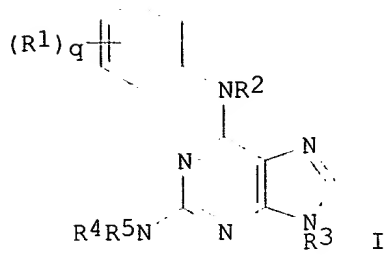

I

AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 6 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289480-07-5 REGISTRY
CN 2-Propynamide, 3-(2,6-dichlorophenyl)-N-[3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C28 H27 Cl2 N7 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

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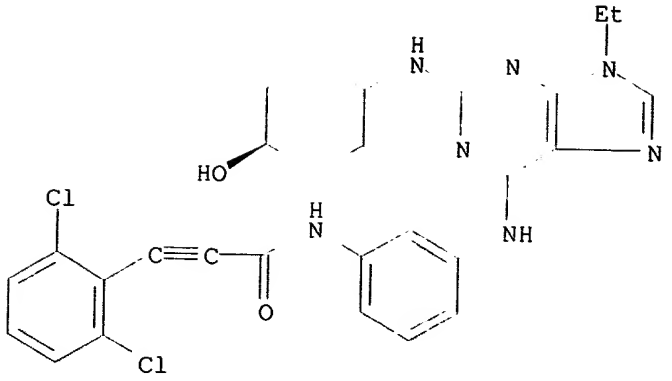

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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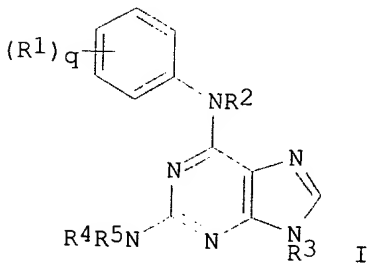

I

AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme

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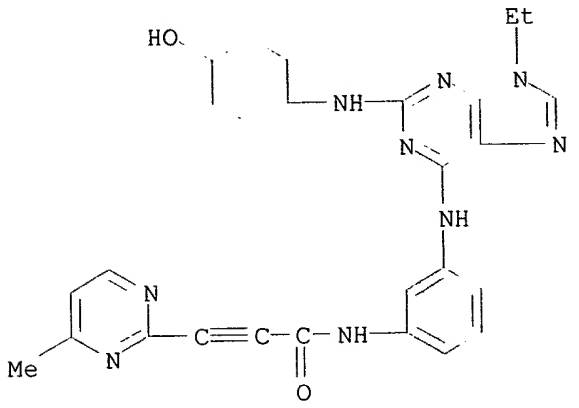
and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 7 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289480-06-4 REGISTRY
CN 2-Propynamide, N-[3-[[9-ethyl-2-[(4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-3-(4-methyl-2-pyrimidinyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C27 H29 N9 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER



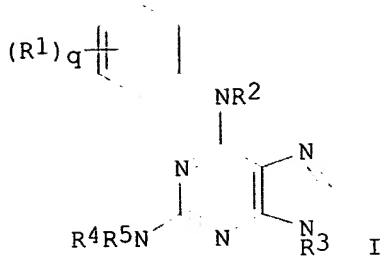
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI

Searched by: Mary Hale 308-4258 CM-1 12D16



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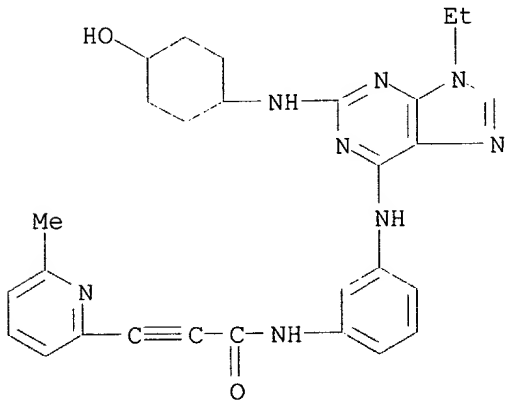
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 8 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289480-05-3 REGISTRY
CN 2-Propynamide, N-[3-[[9-ethyl-2-[(4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-3-(6-methyl-2-pyridinyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C28 H30 N8 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis

Searched by: Mary Hale 308-4258 CM-1 12D16

A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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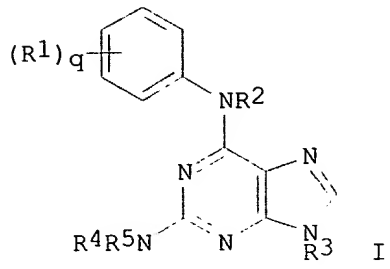

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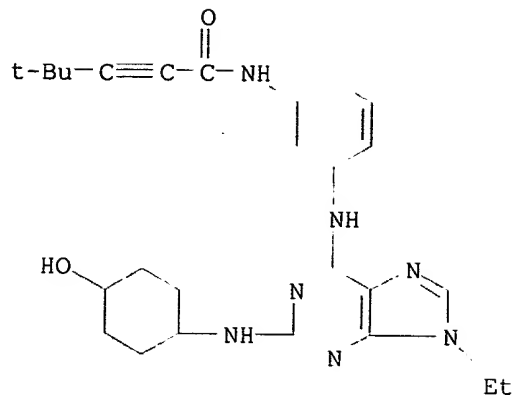
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 9 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289480-04-2 REGISTRY
CN 2-Pentynamide, N-[3-[[9-ethyl-2-[(4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-4,4-dimethyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C26 H33 N7 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Searched by: Mary Hale 308-4258 CM-1 12D16



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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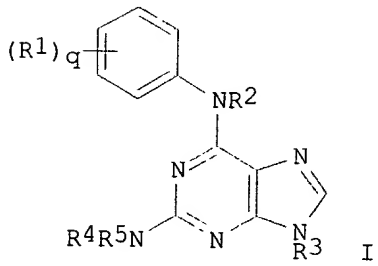

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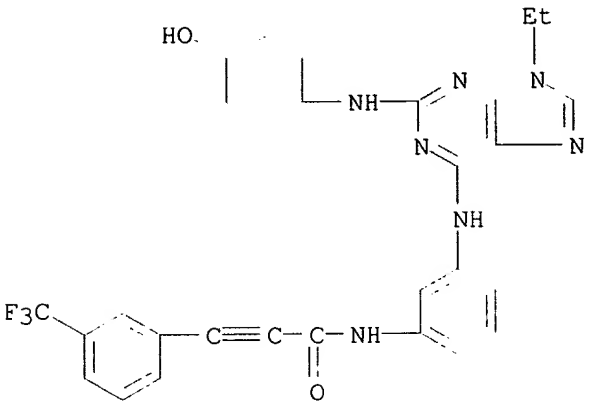
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-

Searched by: Mary Hale 308-4258 CM-1 12D16

9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 10 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289480-03-1 REGISTRY
CN 2-Propynamide, N-[3-[[9-ethyl-2-[(4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-3-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C29 H28 F3 N7 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER



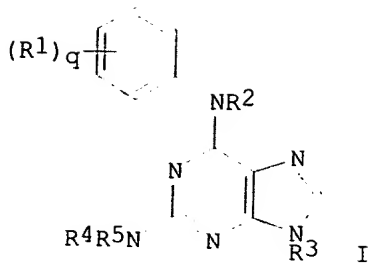
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

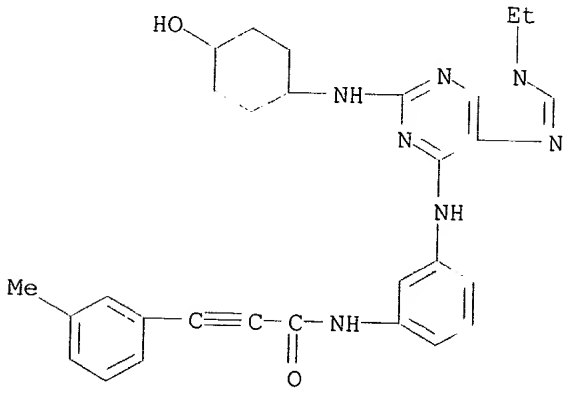
GI

Searched by: Mary Hale 308-4258 CM-1 12D16



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 11 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289480-02-0 REGISTRY
CN 2-Propynamide, N-[3-[[9-ethyl-2-[(4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-3-(3-methylphenyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C29 H31 N7 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER



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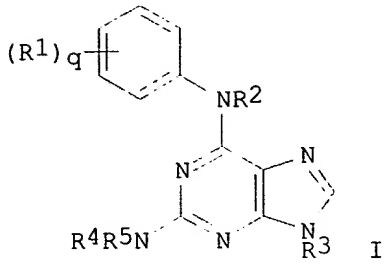
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis

Searched by: Mary Hale 308-4258 CM-1 12D16

A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI



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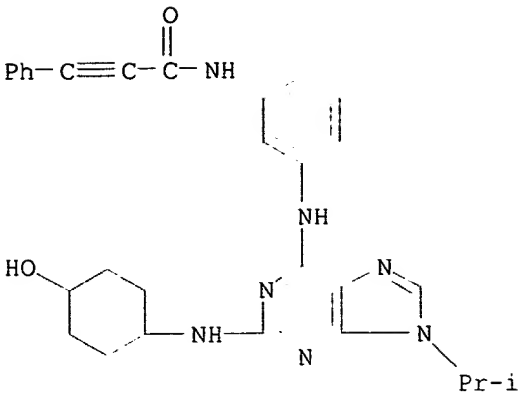
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 12 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289480-00-8 REGISTRY
CN 2-Propynamide, N-[3-[[2-[(4-hydroxycyclohexyl)amino]-9-(1-methylethyl)-9H-purin-6-yl]amino]phenyl]-3-phenyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C29 H31 N7 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Searched by: Mary Hale 308-4258 CM-1 12D16



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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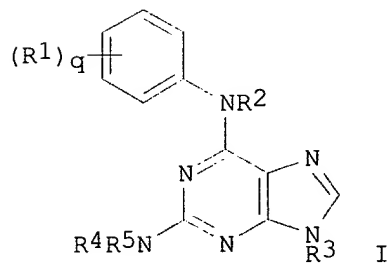
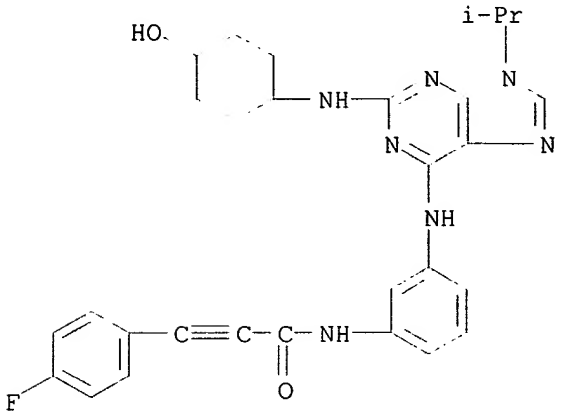


AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-

Searched by: Mary Hale 308-4258 CM-1 12D16

9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 13 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-99-8 REGISTRY
CN 2-Propynamide, 3-(4-fluorophenyl)-N-[3-[[2-[(4-hydroxycyclohexyl)amino]-9-(1-methylethyl)-9H-purin-6-yl]amino]phenyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C29 H30 F N7 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER



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1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

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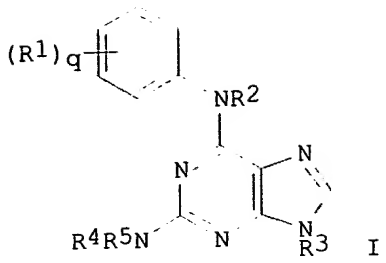
Searched by: Mary Hale 308-4258 CM-1 12D16



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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 14 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-98-7 REGISTRY
CN 2-Propynamide, N-[3-[[2-[(4-hydroxycyclohexyl)amino]-9-(1-methylethyl)-9H-purin-6-yl]amino]phenyl]-3-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)
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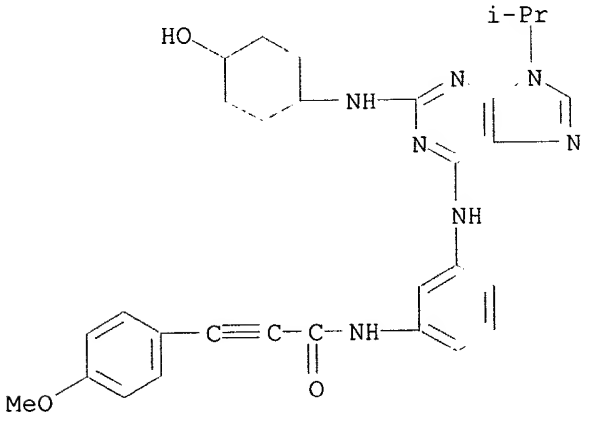
MF C30 H33 N7 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER



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1 REFERENCES IN FILE CA (1967 TO DATE)
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Searched by: Mary Hale 308-4258 CM-1 12D16

Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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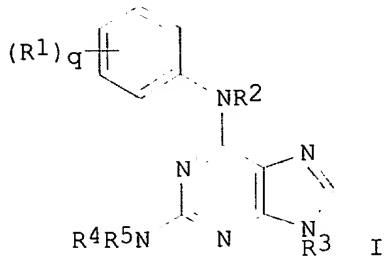

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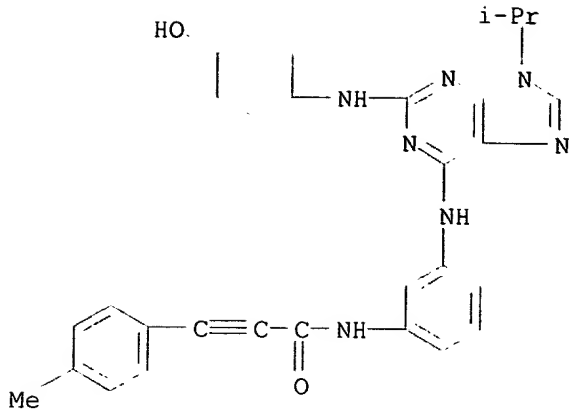
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 15 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-97-6 REGISTRY
CN 2-Propynamide, N-[3-[[2-[(4-hydroxycyclohexyl)amino]-9-(1-methylethyl)-9H-purin-6-yl]amino]phenyl]-3-(4-methylphenyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C30 H33 N7 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Searched by: Mary Hale 308-4258 CM-1 12D16



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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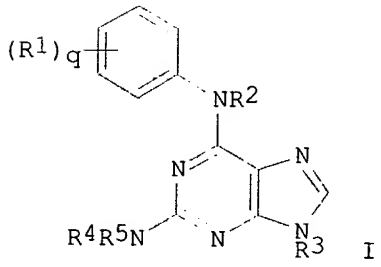

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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus,

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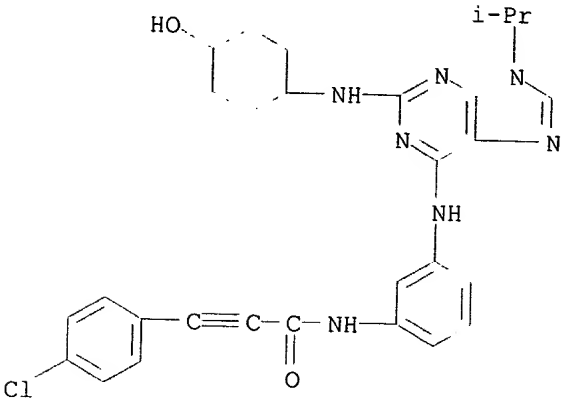
6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 16 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-96-5 REGISTRY
CN 2-Propynamide, 3-(4-chlorophenyl)-N-[3-[[2-[(4-hydroxycyclohexyl)amino]-9-(1-methylethyl)-9H-purin-6-yl]amino]phenyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C29 H30 Cl N7 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

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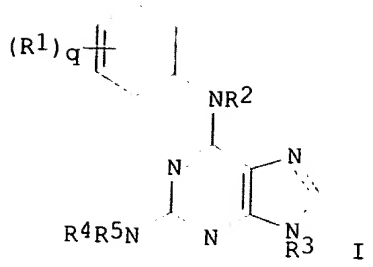
GI

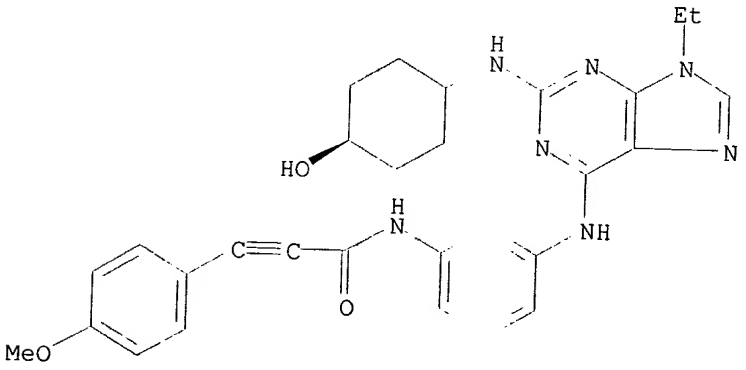
Searched by: Mary Hale 308-4258 CM-1 12D16



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 17 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-95-4 REGISTRY
CN 2-Propynamide, N-[3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-3-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C29 H31 N7 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



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Searched by: Mary Hale 308-4258 CM-1 12D16

Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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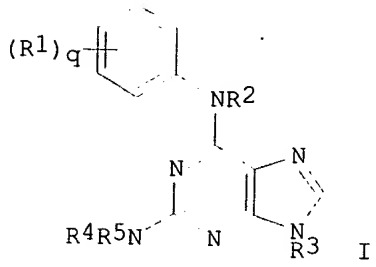

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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 18 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-94-3 REGISTRY
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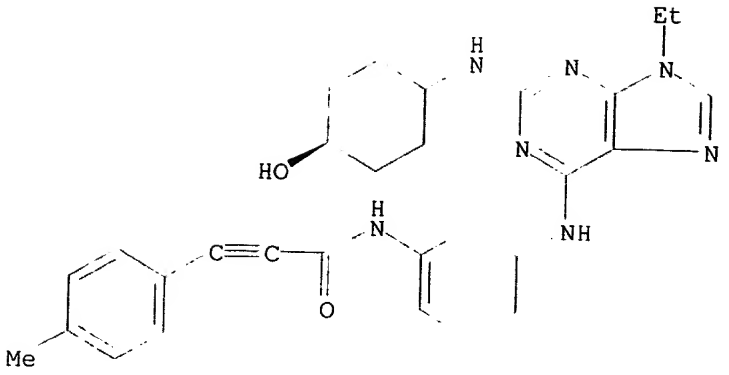
FS STEREOSEARCH
MF C29 H31 N7 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16



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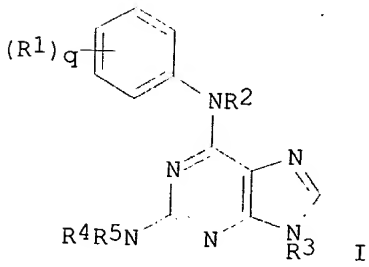
REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI



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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme

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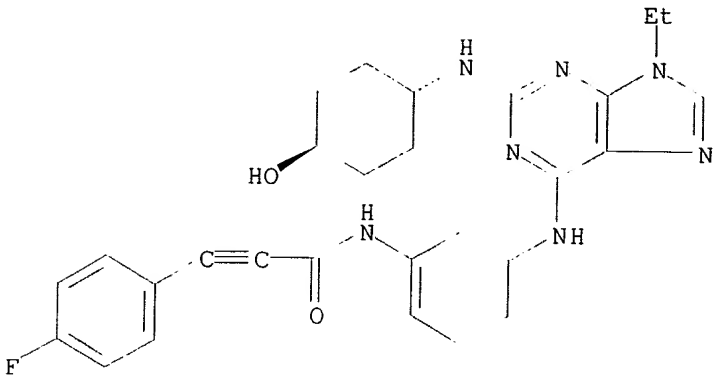
and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 19 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-93-2 REGISTRY
CN 2-Propynamide, N-[3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-3-(4-fluorophenyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C28 H28 F N7 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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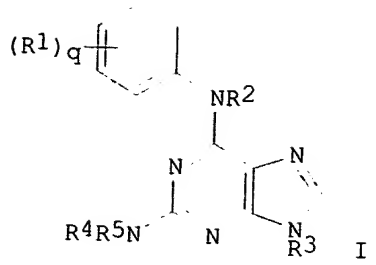
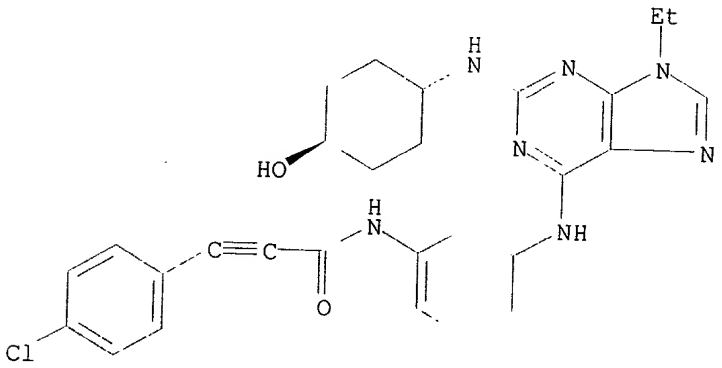
Searched by: Mary Hale 308-4258 CM-1 12D16



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 20 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-92-1 REGISTRY
CN 2-Propynamide, 3-(4-chlorophenyl)-N-[3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C28 H28 Cl N7 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase

Searched by: Mary Hale 308-4258 CM-1 12D16

pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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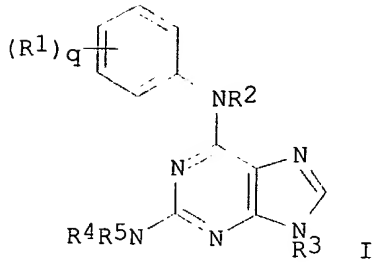

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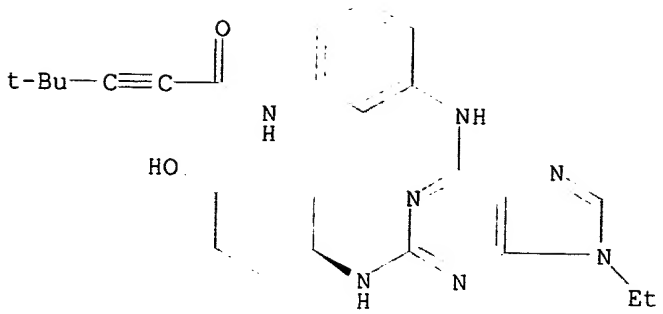
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 21 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-91-0 REGISTRY
CN 2-Pentynamide, N-[3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-4,4-dimethyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C26 H33 N7 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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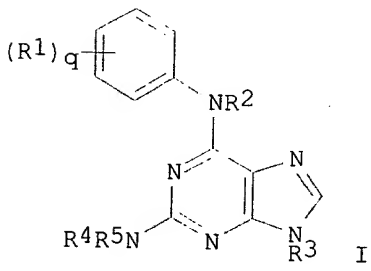

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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

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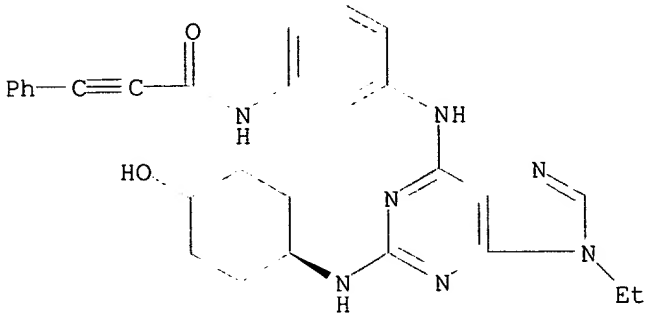
L7 ANSWER 22 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-90-9 REGISTRY
CN 2-Propynamide, N-[3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-3-phenyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C28 H29 N7 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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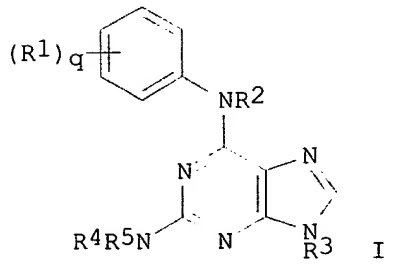

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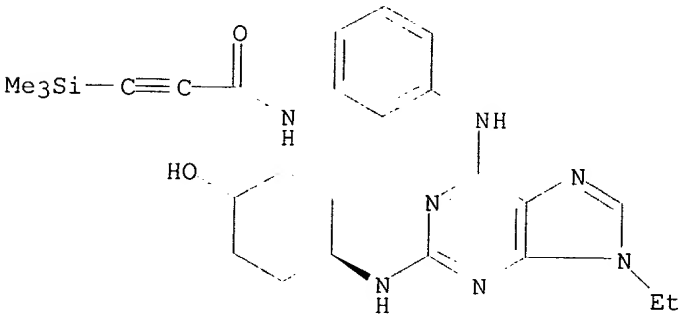
Searched by: Mary Hale 308-4258 CM-1 12D16

AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 23 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-89-6 REGISTRY
CN 2-Propynamide, N-[3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-3-(trimethylsilyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C25 H33 N7 O2 Si
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
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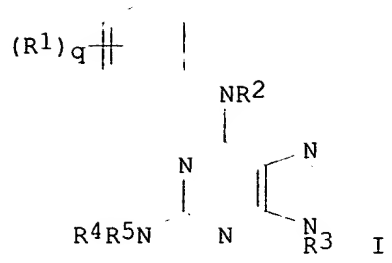
REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI

Searched by: Mary Hale 308-4258 CM-1 12D16



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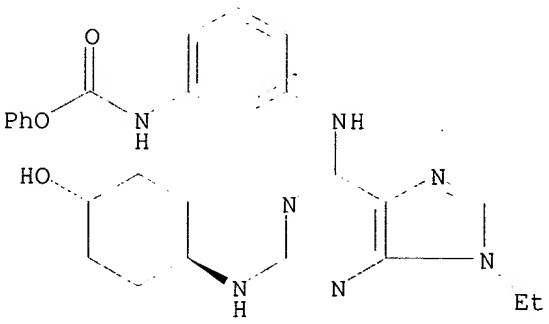
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 24 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-88-5 REGISTRY
CN Carbamic acid, [3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-, phenyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C26 H29 N7 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1

Searched by: Mary Hale 308-4258 CM-1 12D16

20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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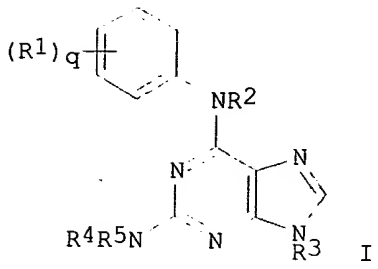

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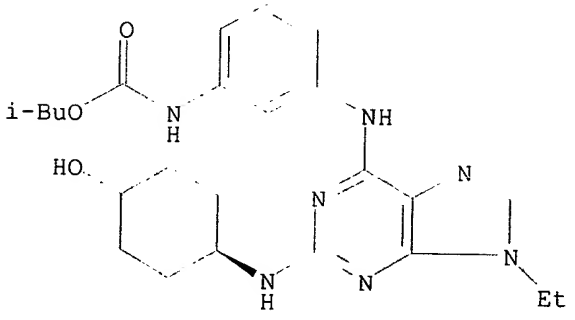
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 25 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-87-4 REGISTRY
CN Carbamic acid, [3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-, 2-methylpropyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C24 H33 N7 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



Searched by: Mary Hale 308-4258 CM-1 12D16

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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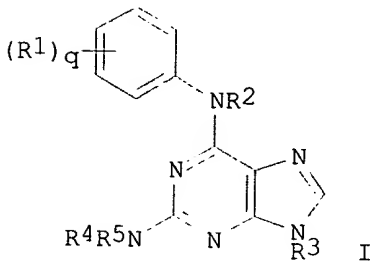


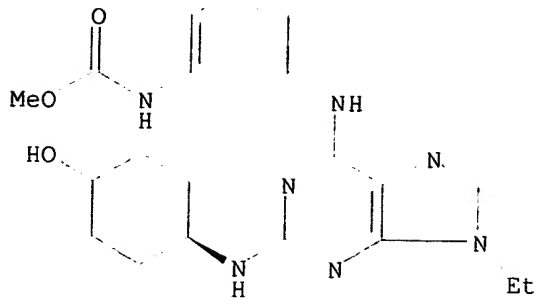
I

AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 26 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-86-3 REGISTRY
CN Carbamic acid, [3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-, methyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C21 H27 N7 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16

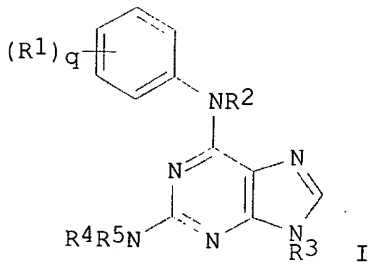


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

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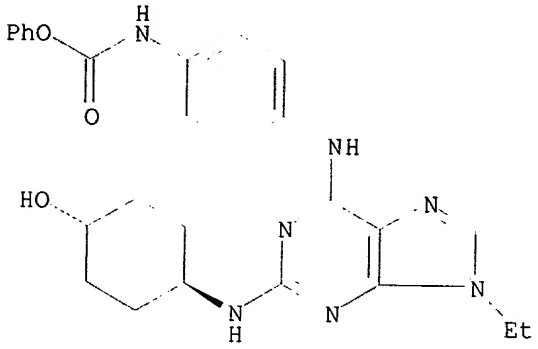
L7 ANSWER 27 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-85-2 REGISTRY
CN Carbamic acid, [4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-, phenyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C26 H29 N7 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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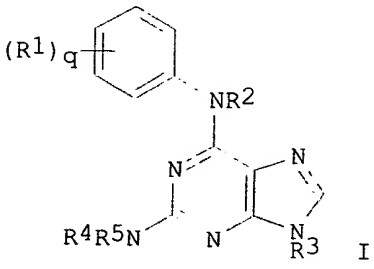

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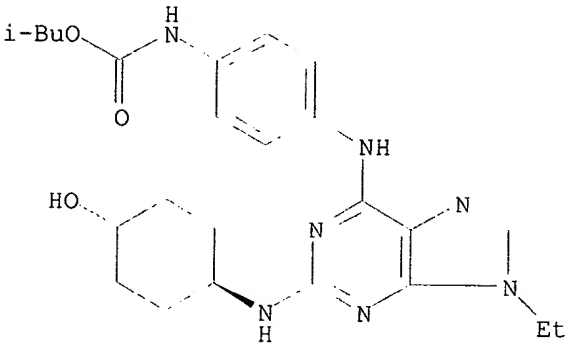
Searched by: Mary Hale 308-4258 CM-1 12D16

AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 28 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-83-0 REGISTRY
CN Carbamic acid, [4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-, 2-methylpropyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C24 H33 N7 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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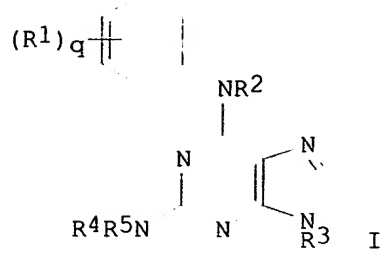
Searched by: Mary Hale 308-4258 CM-1 12D16

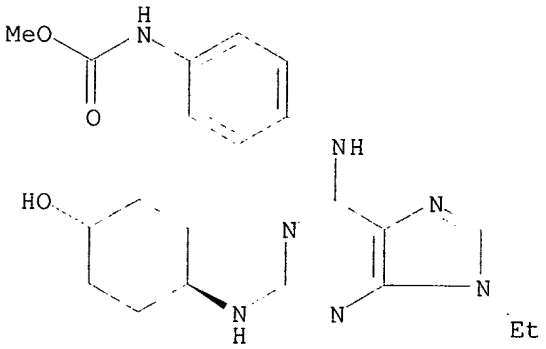


I

AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 29 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-82-9 REGISTRY
CN Carbamic acid, [4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-, methyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C21 H27 N7 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

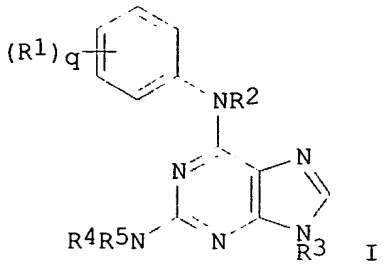
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1

Searched by: Mary Hale 308-4258 CM-1 12D16

20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI



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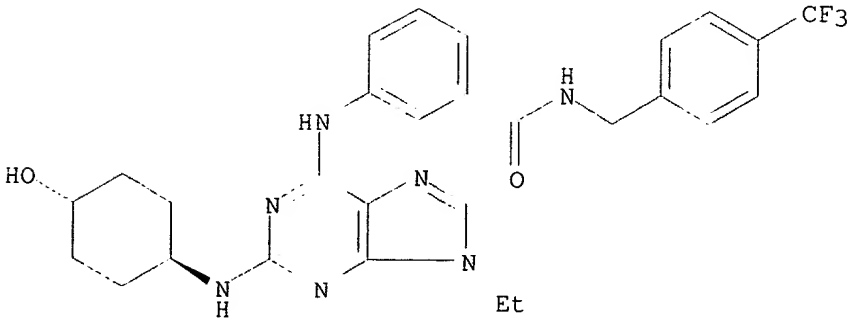
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 30 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-73-8 REGISTRY
CN Benzamide, 3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-[[4-(trifluoromethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C28 H30 F3 N7 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



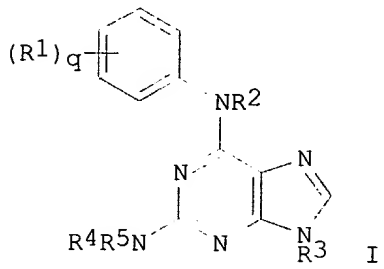
Searched by: Mary Hale 308-4258 CM-1 12D16

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI



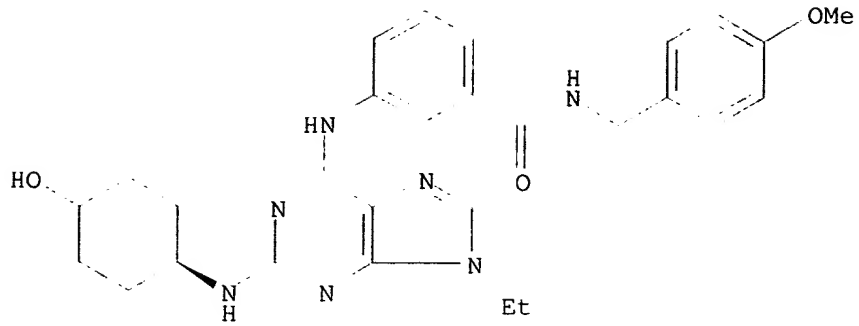
I

AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 31 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-72-7 REGISTRY
CN Benzamide, 3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-[(4-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C28 H33 N7 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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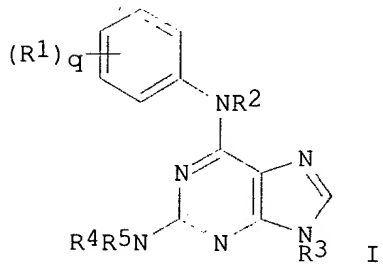

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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

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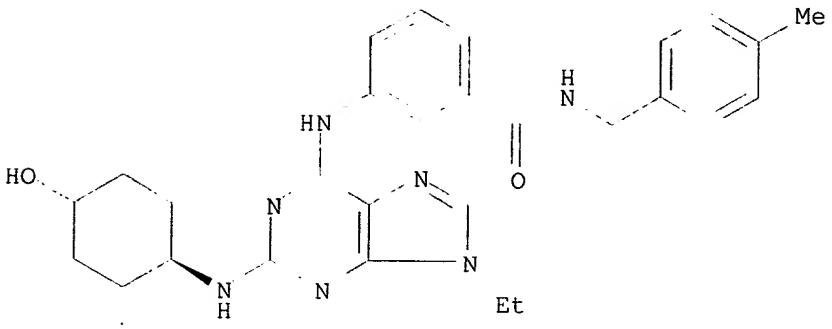
L7 ANSWER 32 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-71-6 REGISTRY
CN Benzamide, 3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-[(4-methylphenyl)methyl]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C28 H33 N7 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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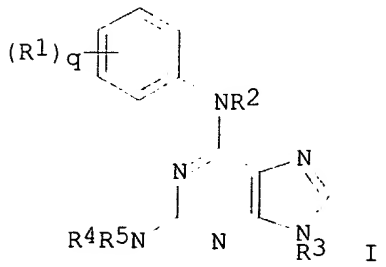

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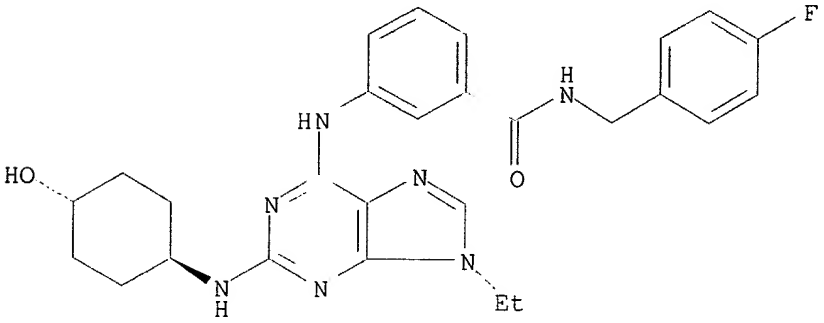
Searched by: Mary Hale 308-4258 CM-1 12D16

AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 33 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-70-5 REGISTRY
CN Benzamide, 3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C27 H30 F N7 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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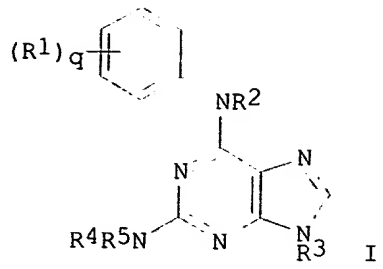
Searched by: Mary Hale 308-4258 CM-1 12D16



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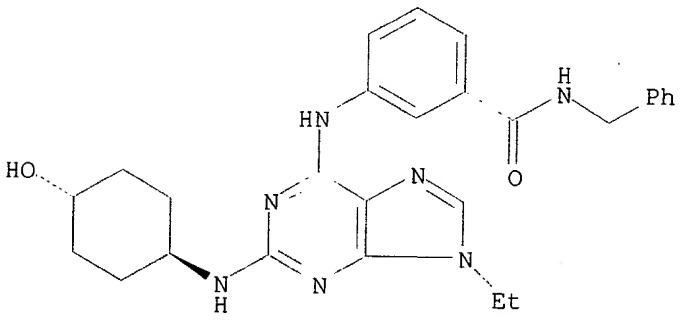
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 34 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-69-2 REGISTRY
CN Benzamide, 3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C27 H31 N7 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1

Searched by: Mary Hale 308-4258 CM-1 12D16

20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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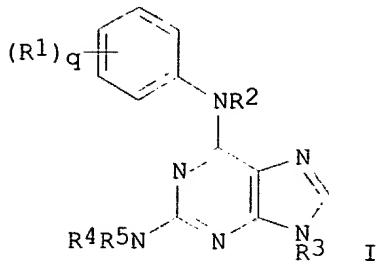

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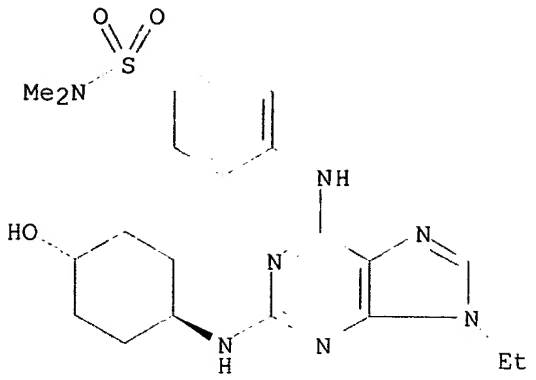
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 35 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-68-1 REGISTRY
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N,N-dimethyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C21 H29 N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16

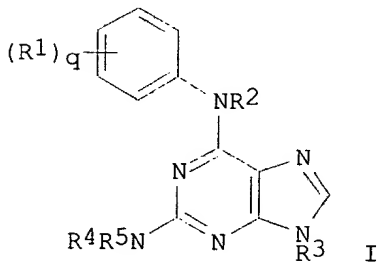


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI



I

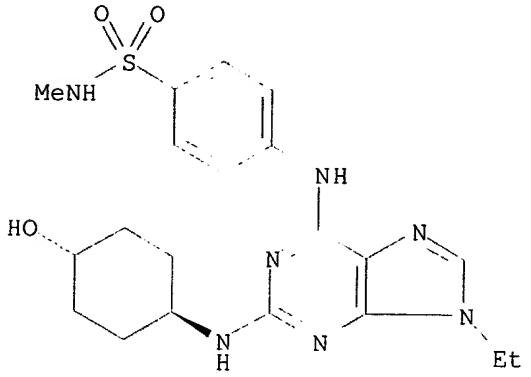
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-

Searched by: Mary Hale 308-4258 CM-1 12D16

9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 36 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-67-0 REGISTRY
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-methyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C20 H27 N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



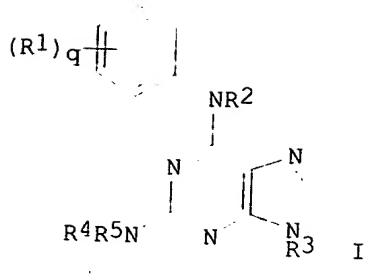
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI

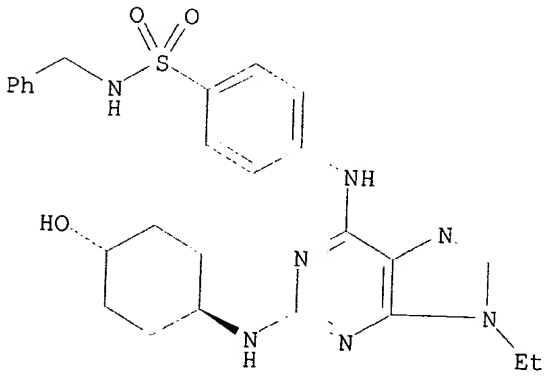
Searched by: Mary Hale 308-4258 CM-1 12D16



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 37 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-66-9 REGISTRY
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C26 H31 N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

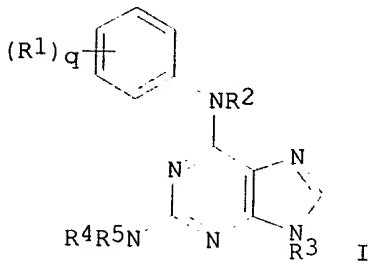
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg;

Searched by: Mary Hale 308-4258 CM-1 12D16

Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI



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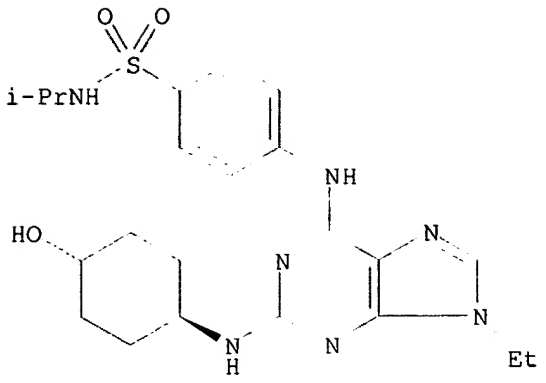
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 38 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-65-8 REGISTRY
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-(1-methylethyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C22 H31 N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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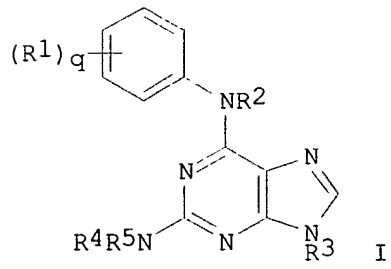


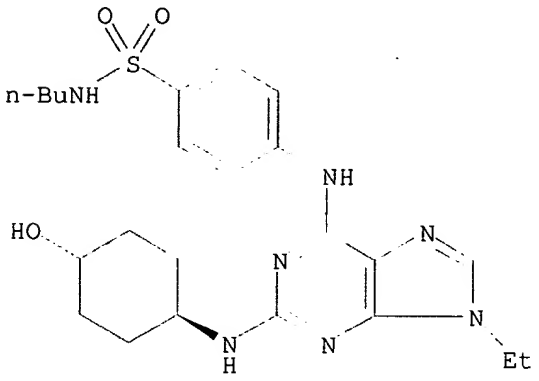
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-

Searched by: Mary Hale 308-4258 CM-1 12D16

9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 39 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-64-7 REGISTRY
CN Benzenesulfonamide, N-butyl-4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C23 H33 N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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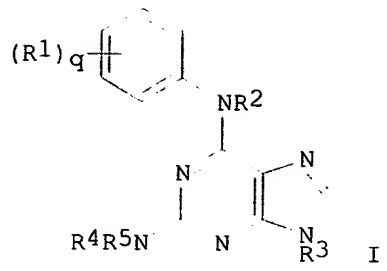
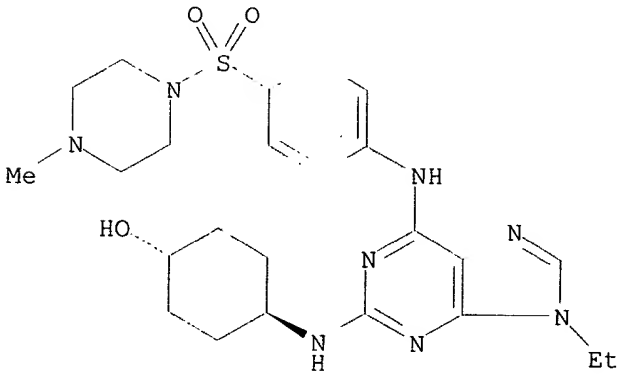
Searched by: Mary Hale 308-4258 CM-1 12D16



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 40 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-63-6 REGISTRY
CN Piperazine, 1-[[4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]sulfonyl]-4-methyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C24 H34 N8 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg;

Searched by: Mary Hale 308-4258 CM-1 12D16

Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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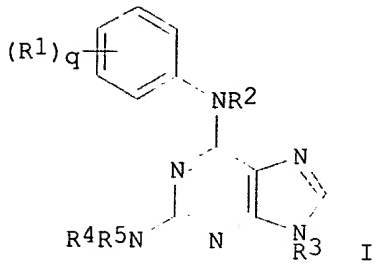

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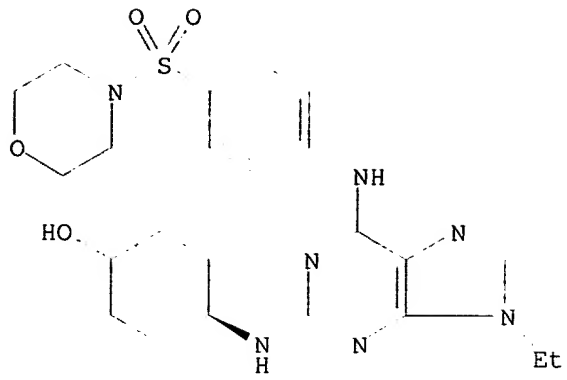
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 41 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-62-5 REGISTRY
CN Morpholine, 4-[[4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C23 H31 N7 O4 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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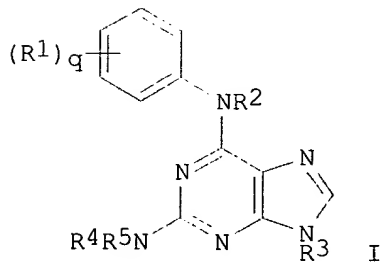

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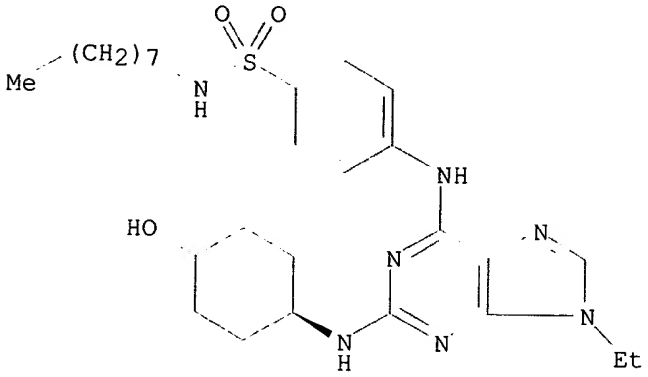
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-

Searched by: Mary Hale 308-4258 CM-1 12D16

9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 42 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-61-4 REGISTRY
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-octyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C27 H41 N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



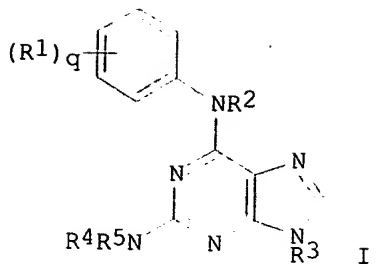
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI

Searched by: Mary Hale 308-4258 CM-1 12D16



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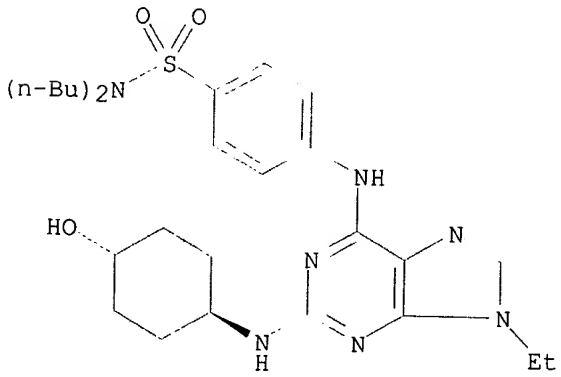
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 43 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-60-3 REGISTRY
CN Benzenesulfonamide, N,N-dibutyl-4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C27 H41 N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



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Searched by: Mary Hale 308-4258 CM-1 12D16

Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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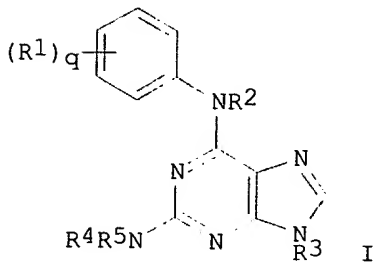

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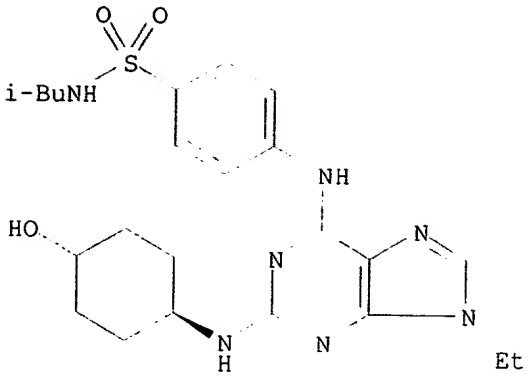
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 44 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-59-0 REGISTRY
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-(2-methylpropyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C23 H33 N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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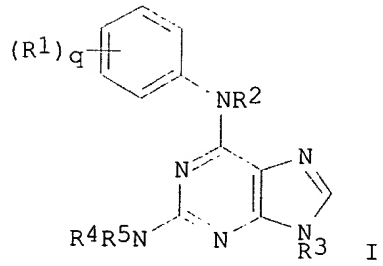

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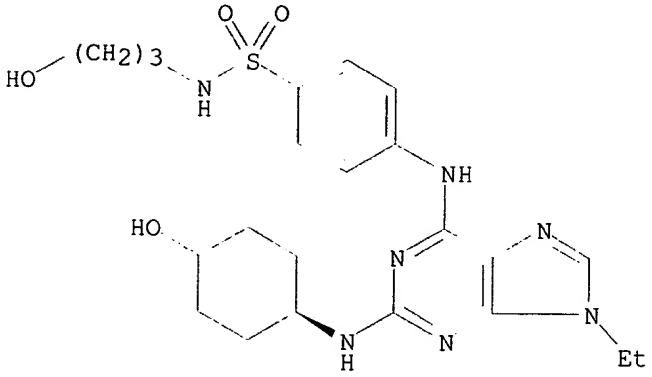
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-

Searched by: Mary Hale 308-4258 CM-1 12D16

9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 45 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-58-9 REGISTRY
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-(3-hydroxypropyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C22 H31 N7 O4 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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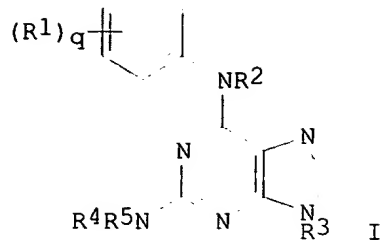
Searched by: Mary Hale 308-4258 CM-1 12D16



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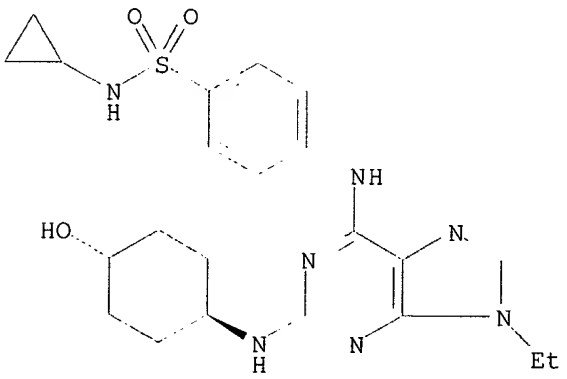
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 46 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-57-8 REGISTRY
CN Benzenesulfonamide, N-cyclopropyl-4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C22 H29 N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg;

Searched by: Mary Hale 308-4258 CM-1 12D16

Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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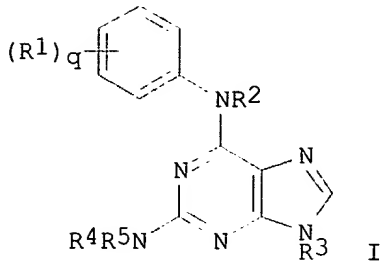

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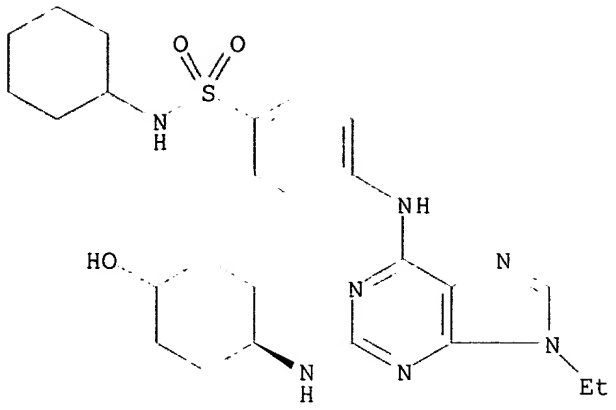
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 47 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-56-7 REGISTRY
CN Benzenesulfonamide, N-cyclohexyl-4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C25 H35 N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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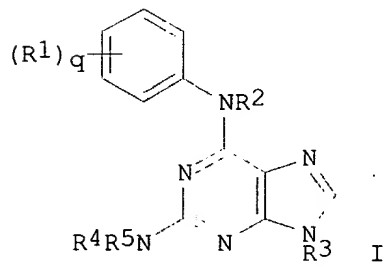


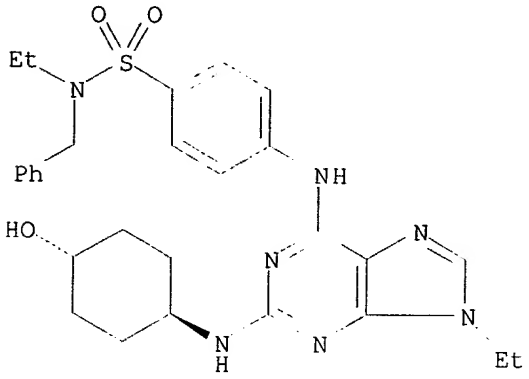
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus,

Searched by: Mary Hale 308-4258 CM-1 12D16

6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 48 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-55-6 REGISTRY
CN Benzenesulfonamide, N-ethyl-4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C28 H35 N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



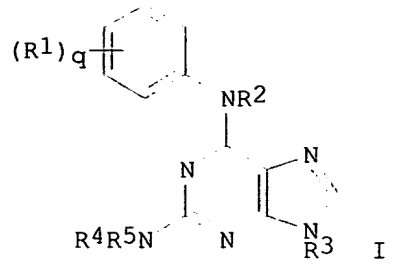
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI

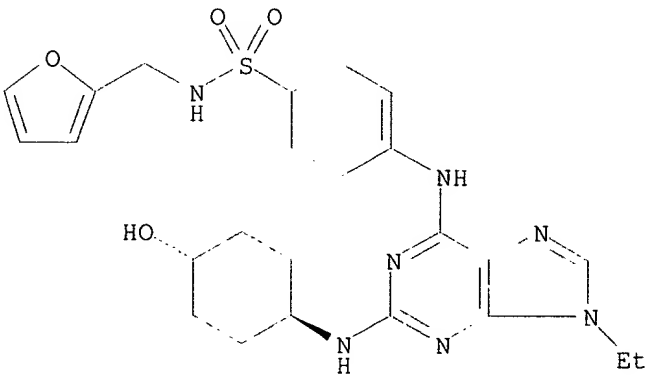
Searched by: Mary Hale 308-4258 CM-1 12D16



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 49 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-54-5 REGISTRY
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-(2-furanylmethyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C24 H29 N7 O4 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

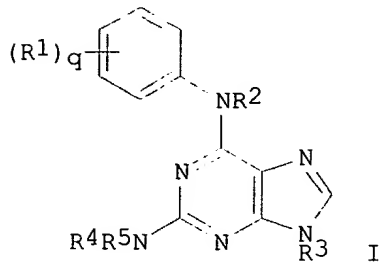
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg;

Searched by: Mary Hale 308-4258 CM-1 12D16

Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI



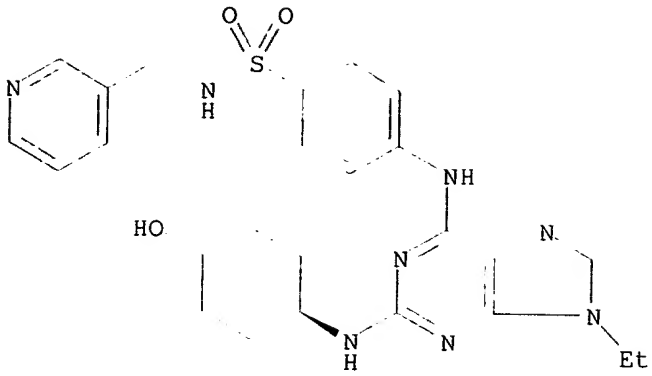
I

AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 50 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-53-4 REGISTRY
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C25 H30 N8 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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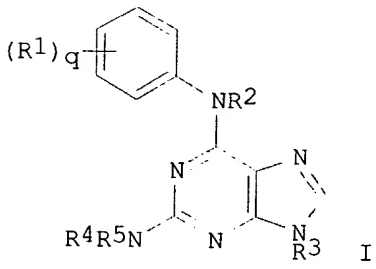


I

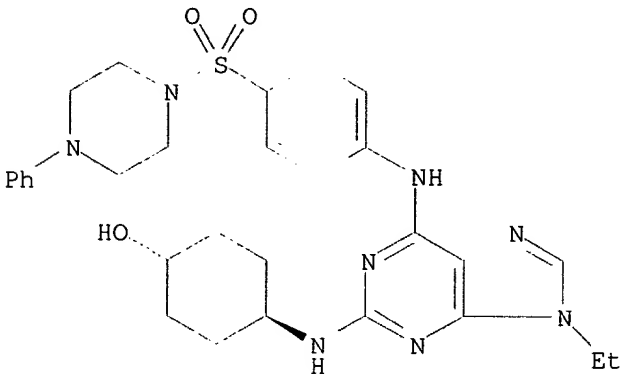
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-

Searched by: Mary Hale 308-4258 CM-1 12D16

9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 51 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-52-3 REGISTRY
CN Piperazine, 1-[[4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]sulfonyl]-4-phenyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C29 H36 N8 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

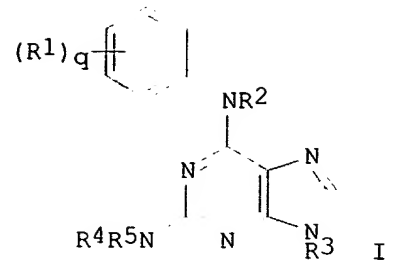


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.
GI

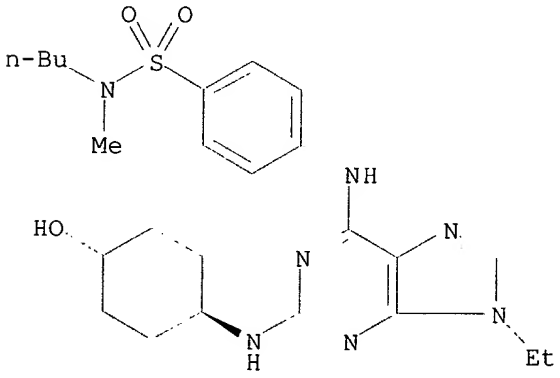
Searched by: Mary Hale 308-4258 CM-1 12D16



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 52 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-51-2 REGISTRY
CN Benzenesulfonamide, N-butyl-4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-methyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C24 H35 N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase

Searched by: Mary Hale 308-4258 CM-1 12D16

pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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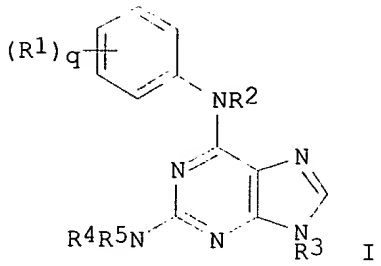


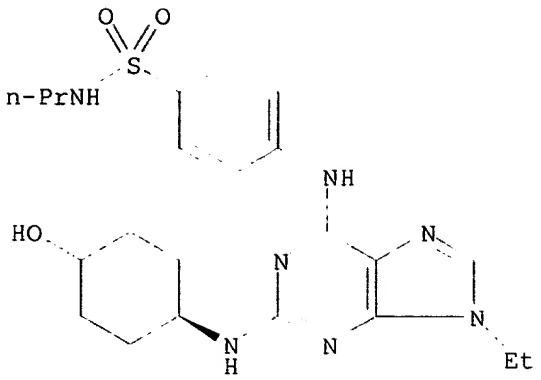
I

AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 53 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-50-1 REGISTRY
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-propyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C22 H31 N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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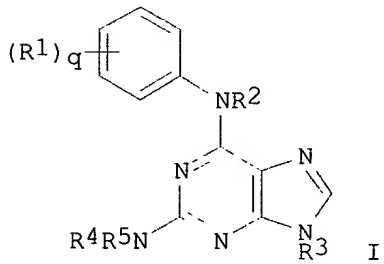

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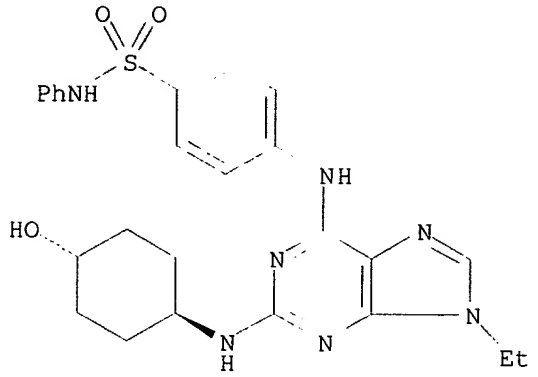
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-

Searched by: Mary Hale 308-4258 CM-1 12D16

9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 54 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-49-8 REGISTRY
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-phenyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C25 H29 N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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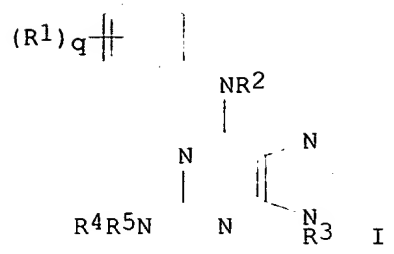
Searched by: Mary Hale 308-4258 CM-1 12D16

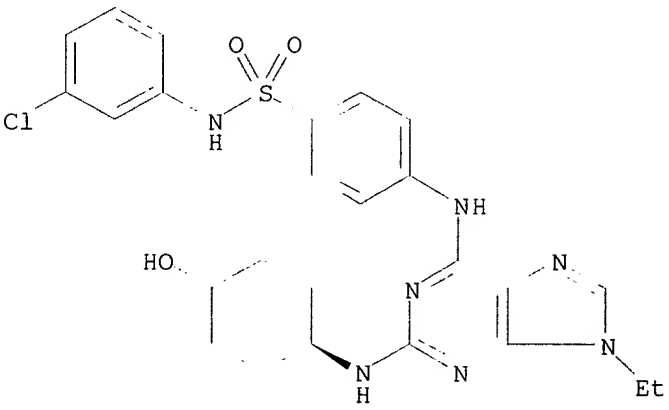


I

AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 55 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-48-7 REGISTRY
CN Benzenesulfonamide, N-(3-chlorophenyl)-4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C25 H28 Cl N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

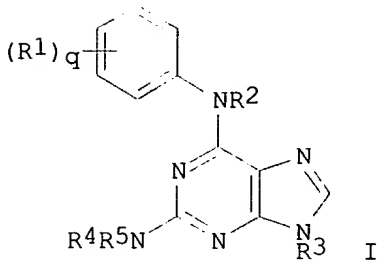
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase

Searched by: Mary Hale 308-4258 CM-1 12D16

pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI



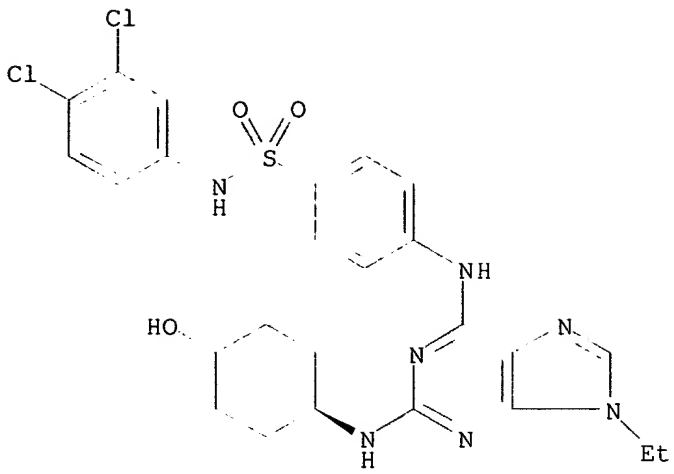
I

AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 56 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-47-6 REGISTRY
CN Benzenesulfonamide, N-(3,4-dichlorophenyl)-4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C25 H27 Cl2 N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16

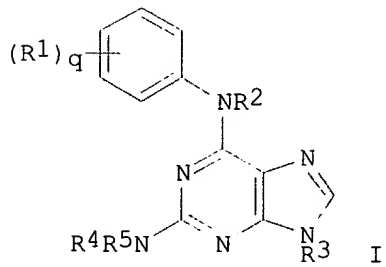


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene

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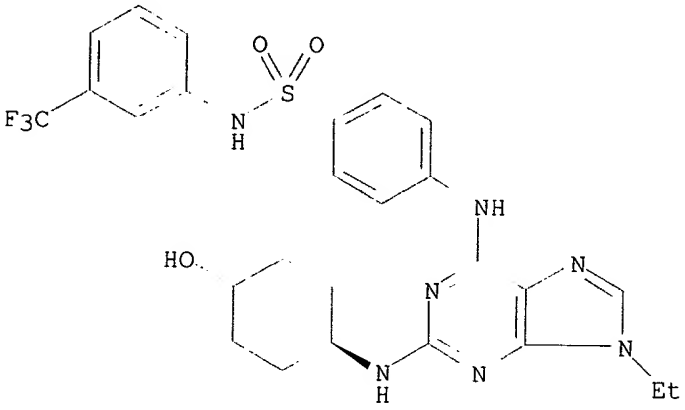
optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 57 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-46-5 REGISTRY
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C26 H28 F3 N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.
GI

Searched by: Mary Hale 308-4258 CM-1 12D16

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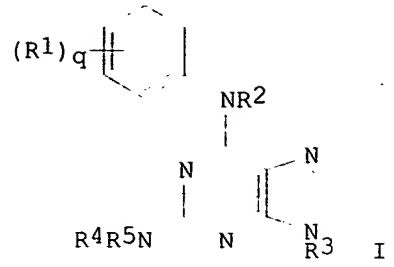
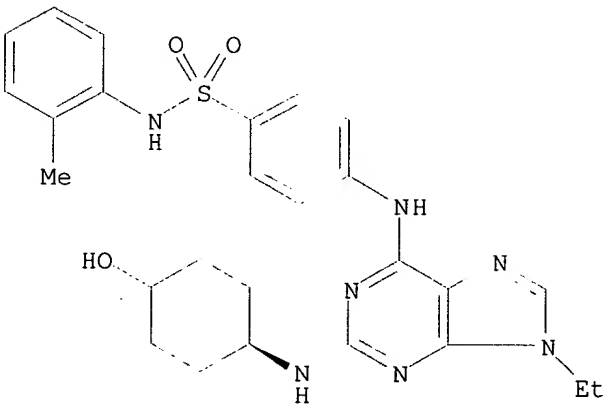
927322
pt 2/2



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 58 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-45-4 REGISTRY
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-(2-methylphenyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C26 H31 N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase

Searched by: Mary Hale 308-4258 CM-1 12D16

pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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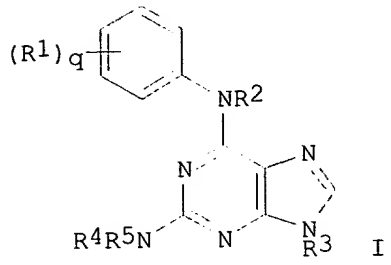

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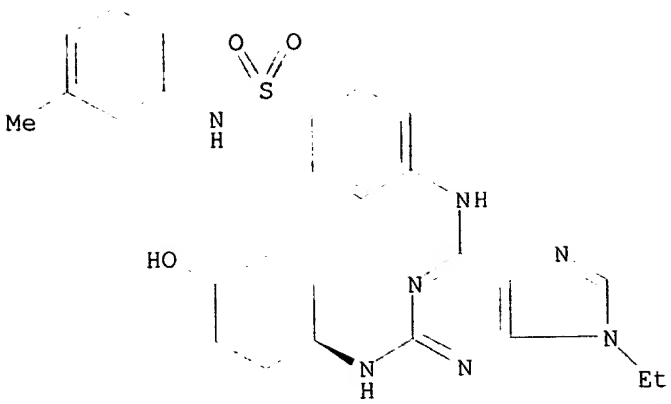
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 59 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-44-3 REGISTRY
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-(3-methylphenyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C26 H31 N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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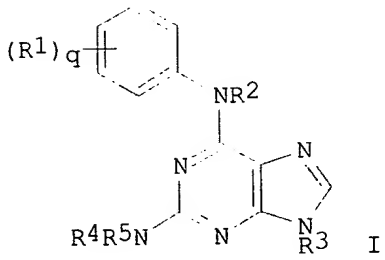

AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus,

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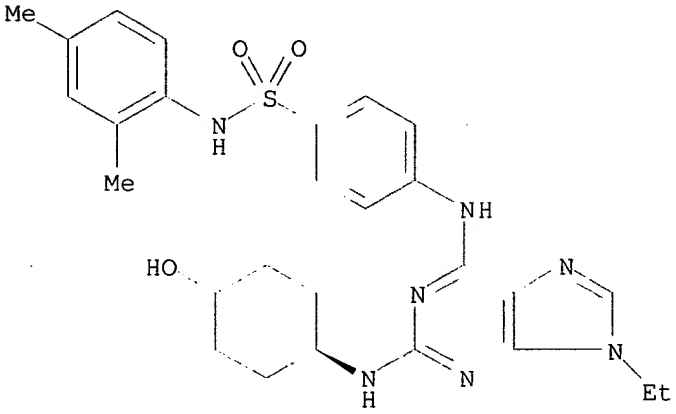
6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 60 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-43-2 REGISTRY
CN Benzenesulfonamide, N-(2,4-dimethylphenyl)-4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C27 H33 N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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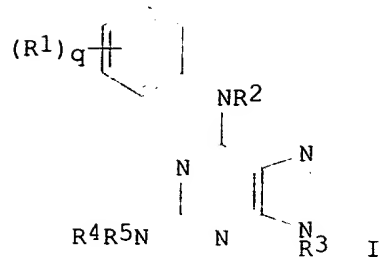
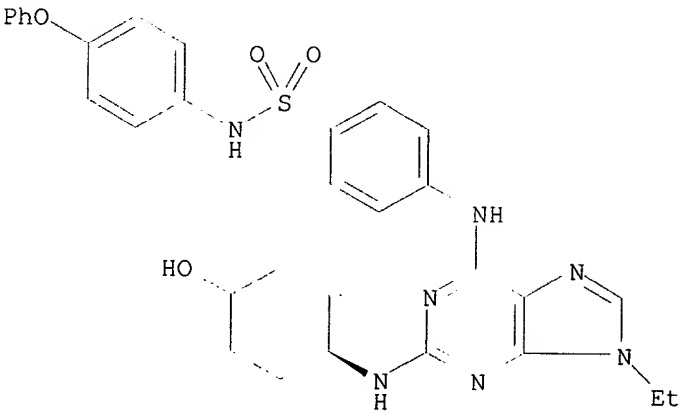
Searched by: Mary Hale 308-4258 CM-1 12D16



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 61 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-42-1 REGISTRY
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-(4-phenoxyphenyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C31 H33 N7 O4 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

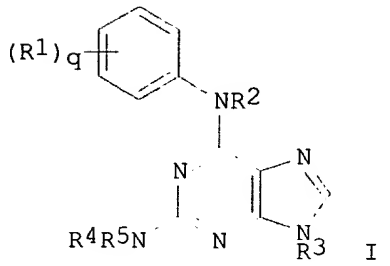
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase

Searched by: Mary Hale 308-4258 CM-1 12D16

pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI



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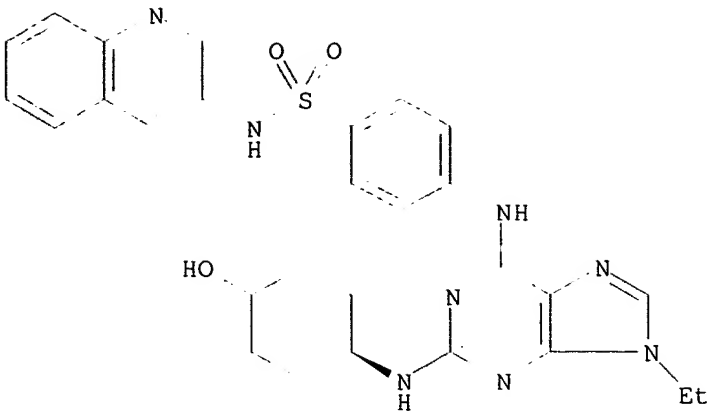
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 62 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-41-0 REGISTRY
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-3-quinolinyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C28 H30 N8 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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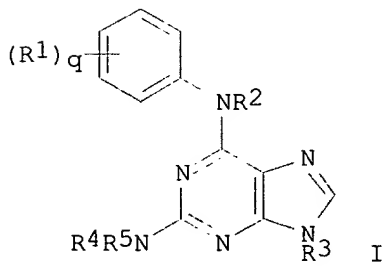


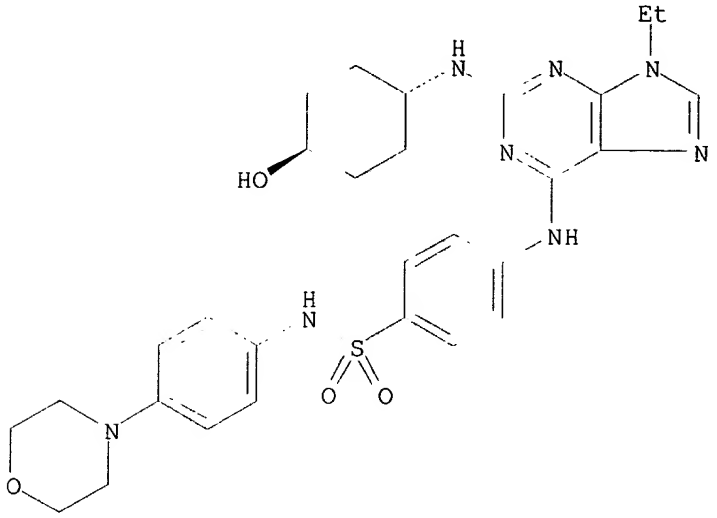
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus,

Searched by: Mary Hale 308-4258 CM-1 12D16

6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 63 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-40-9 REGISTRY
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-[4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C29 H36 N8 O4 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



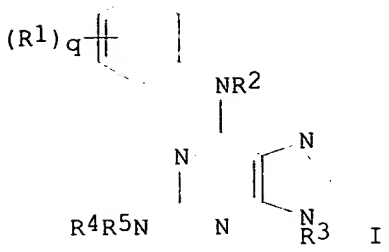
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI

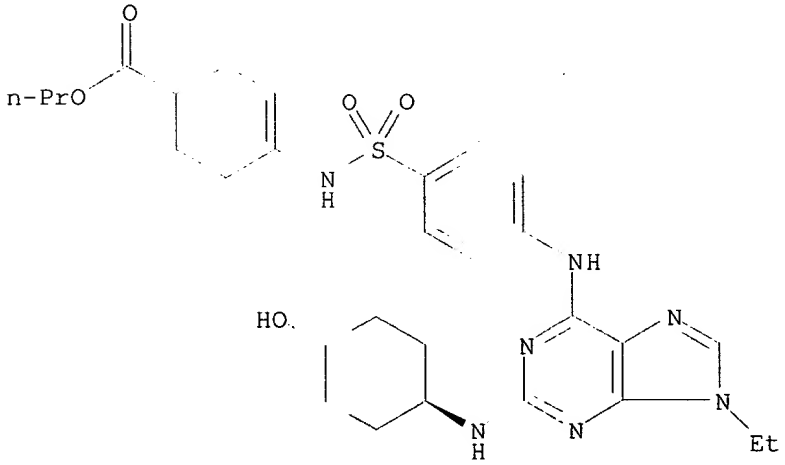
Searched by: Mary Hale 308-4258 CM-1 12D16



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 64 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-39-6 REGISTRY
CN Benzoic acid, 4-[[[4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]sulfonyl]amino]-, propyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C29 H35 N7 O5 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

Searched by: Mary Hale 308-4258 CM-1 12D16

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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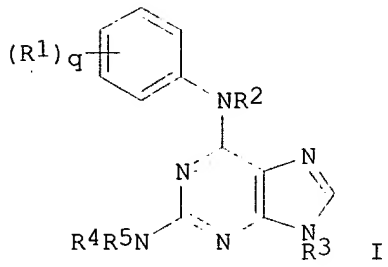

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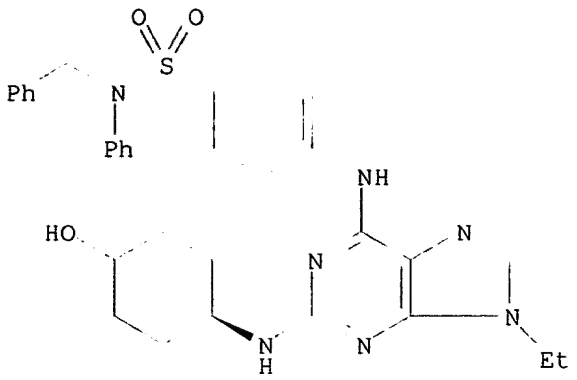
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 65 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-38-5 REGISTRY
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-phenyl-N-(phenylmethyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C32 H35 N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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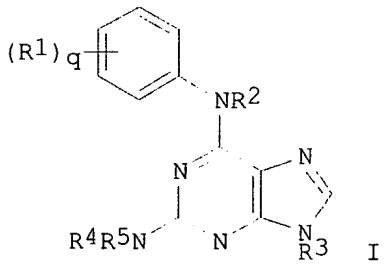


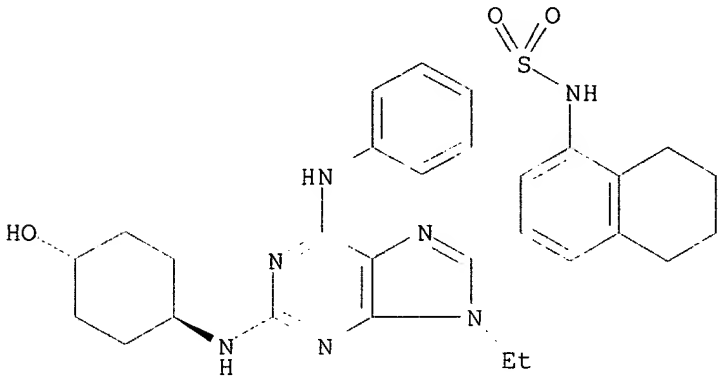
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-

Searched by: Mary Hale 308-4258 CM-1 12D16

9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 66 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-37-4 REGISTRY
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-(5,6,7,8-tetrahydro-1-naphthalenyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C29 H35 N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

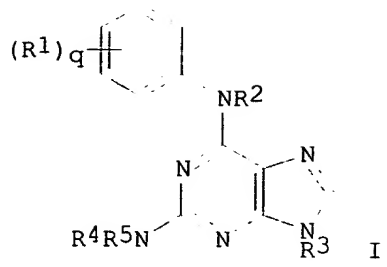


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.
GI

Searched by: Mary Hale 308-4258 CM-1 12D16



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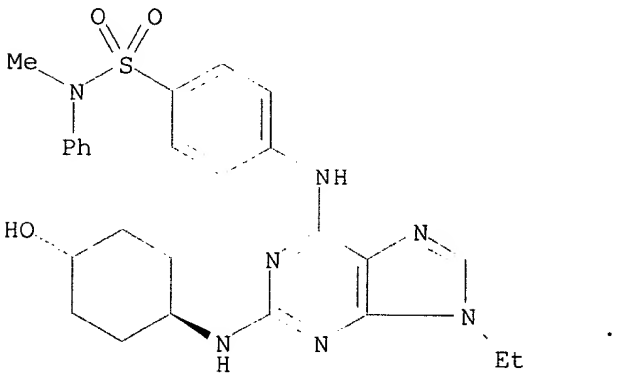
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 67 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-36-3 REGISTRY
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-methyl-N-phenyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C26 H31 N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

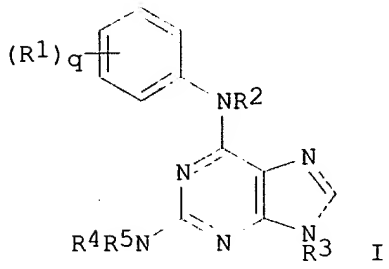
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg;

Searched by: Mary Hale 308-4258 CM-1 12D16

Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI



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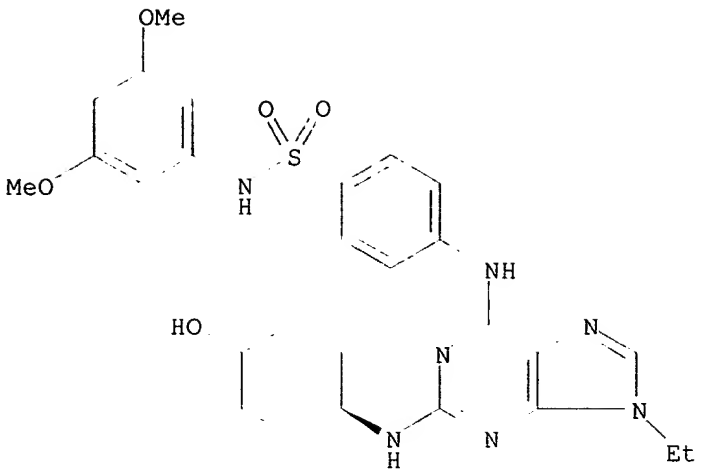
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 68 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-35-2 REGISTRY
CN Benzenesulfonamide, N-(3,5-dimethoxyphenyl)-4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C27 H33 N7 O5 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16

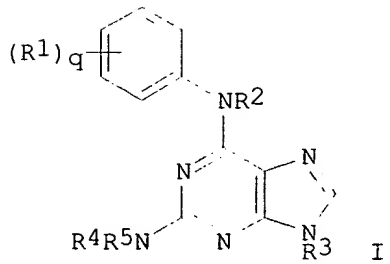


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI



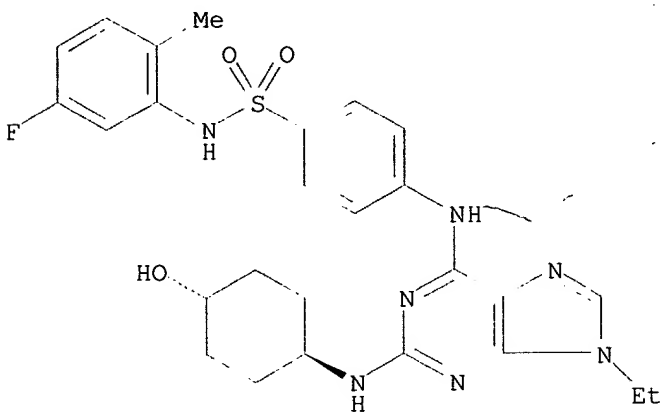
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene

Searched by: Mary Hale 308-4258 CM-1 12D16

optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 69 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-34-1 REGISTRY
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-(5-fluoro-2-methylphenyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C26 H30 F N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

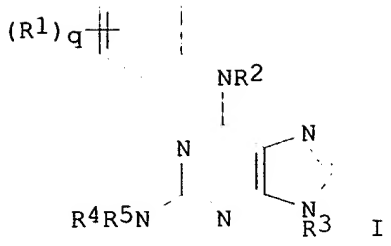


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.
GI

Searched by: Mary Hale 308-4258 CM-1 12D16



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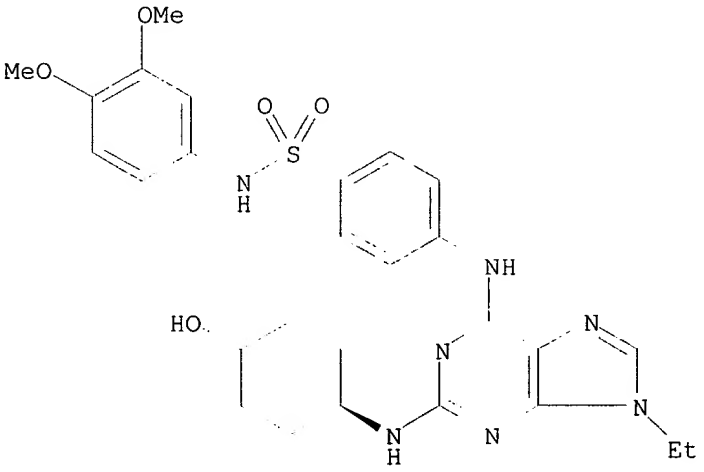
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 70 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-33-0 REGISTRY
CN Benzenesulfonamide, N-(3,4-dimethoxyphenyl)-4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C27 H33 N7 O5 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

Searched by: Mary Hale 308-4258 CM-1 12D16

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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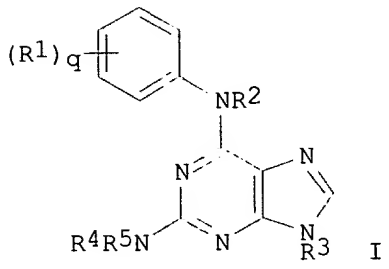

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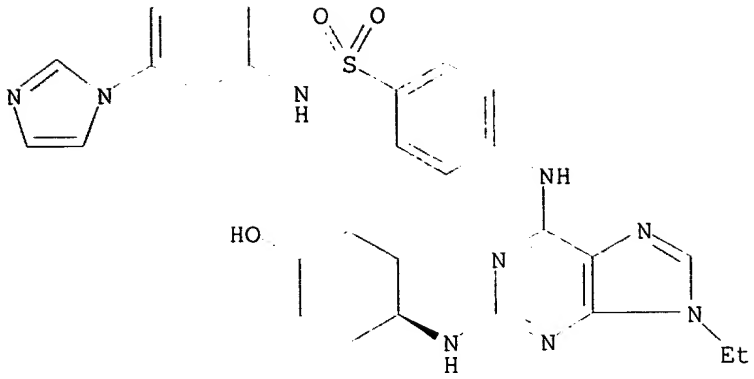
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 71 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-32-9 REGISTRY
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-[3-(1H-imidazol-1-yl)phenyl]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C28 H31 N9 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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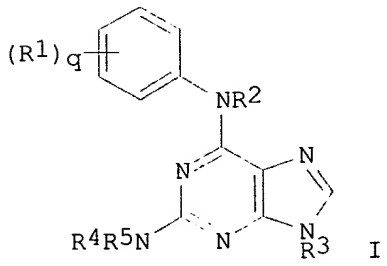

AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus,

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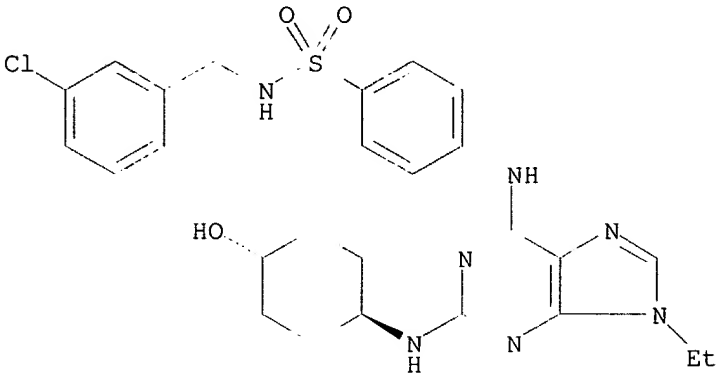
6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 72 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-31-8 REGISTRY
CN Benzenesulfonamide, N-[(3-chlorophenyl)methyl]-4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C26 H30 Cl N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.
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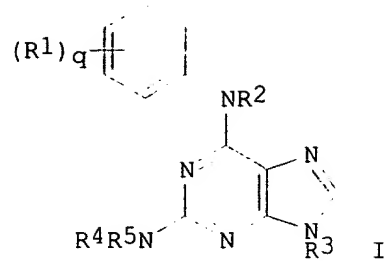
Searched by: Mary Hale 308-4258 CM-1 12D16



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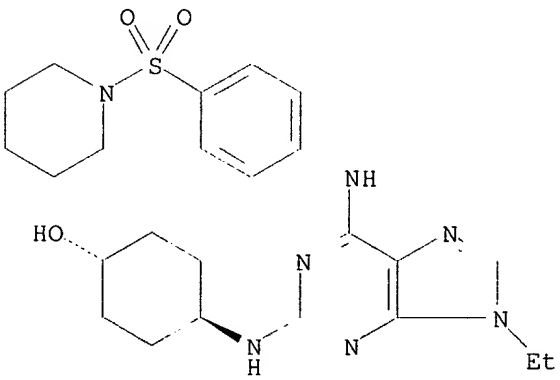
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 73 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-30-7 REGISTRY
CN Piperidine, 1-[[4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C24 H33 N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg;

Searched by: Mary Hale 308-4258 CM-1 12D16

Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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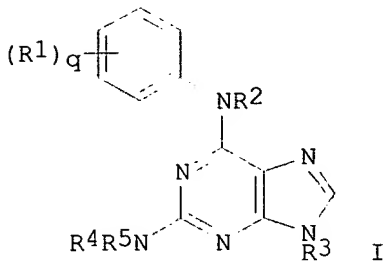


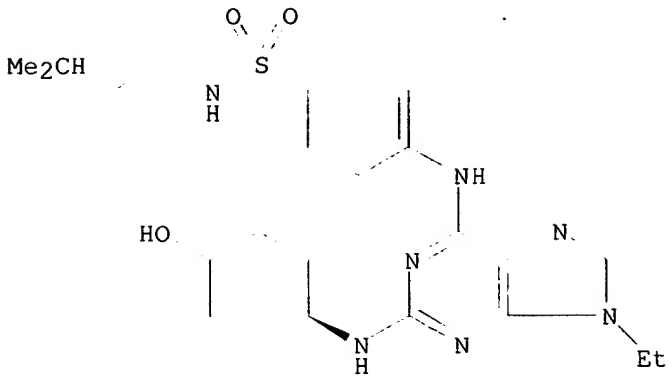
I

AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 74 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-29-4 REGISTRY
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-(3-methylbutyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C24 H35 N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16

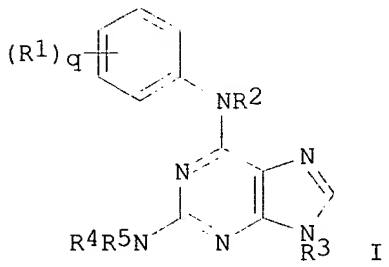


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI



I

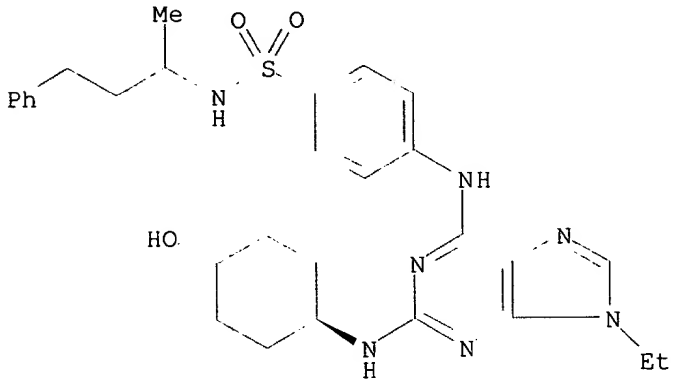
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-

Searched by: Mary Hale 308-4258 CM-1 12D16

9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 75 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-28-3 REGISTRY
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-(1-methyl-3-phenylpropyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C29 H37 N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



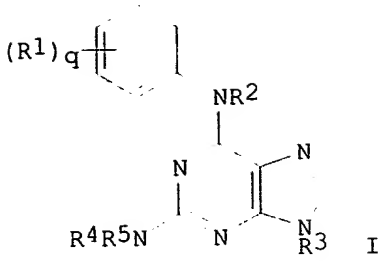
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI

Searched by: Mary Hale 308-4258 CM-1 12D16



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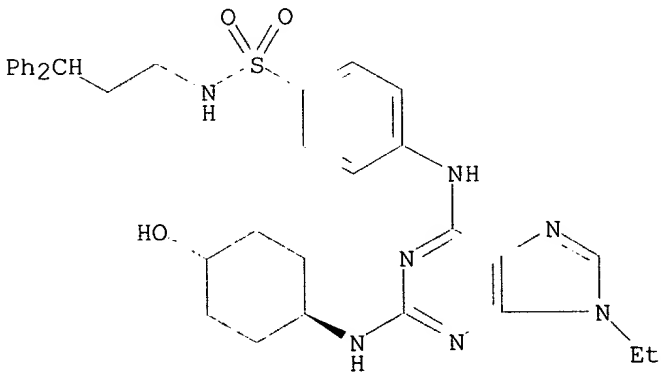
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 76 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-27-2 REGISTRY
CN Benzenesulfonamide, N-(3,3-diphenylpropyl)-4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C34 H39 N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg;

Searched by: Mary Hale 308-4258 CM-1 12D16

Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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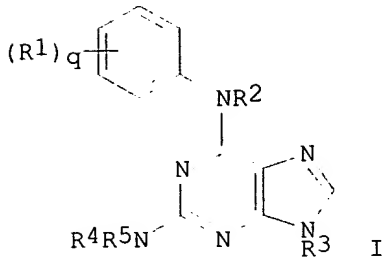

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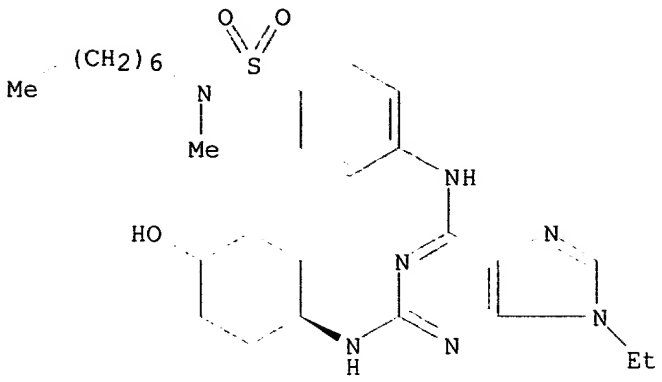
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 77 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-26-1 REGISTRY
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-heptyl-N-methyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C27 H41 N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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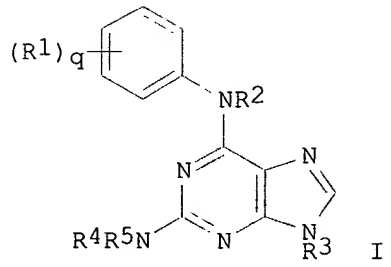


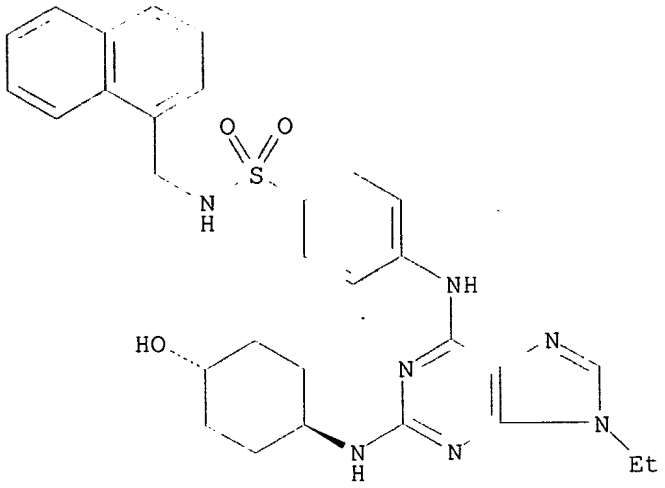
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-

Searched by: Mary Hale 308-4258 CM-1 12D16

9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 78 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-25-0 REGISTRY
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-(1-naphthalenylmethyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C30 H33 N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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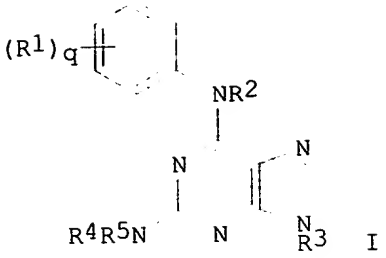
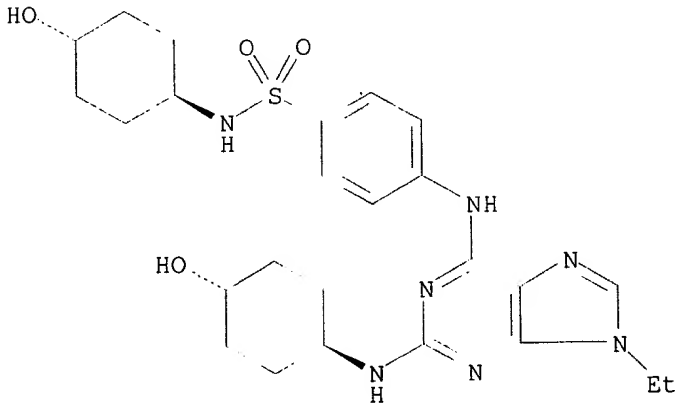
Searched by: Mary Hale 308-4258 CM-1 12D16



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 79 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-24-9 REGISTRY
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-(trans-4-hydroxycyclohexyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C25 H35 N7 O4 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase

Searched by: Mary Hale 308-4258 CM-1 12D16

pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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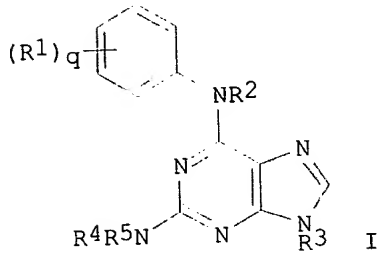

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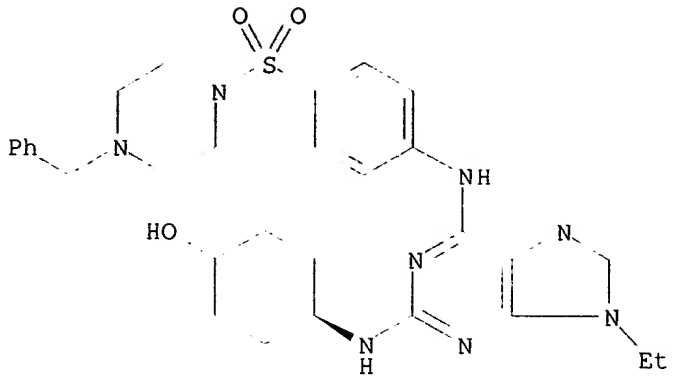
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 80 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-23-8 REGISTRY
CN Piperazine, 1-[[4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]sulfonyl]-4-(phenylmethyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C30 H38 N8 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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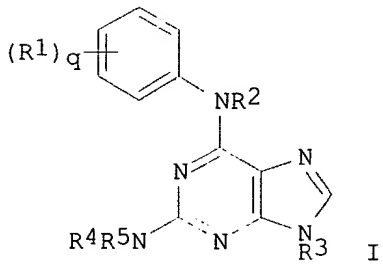

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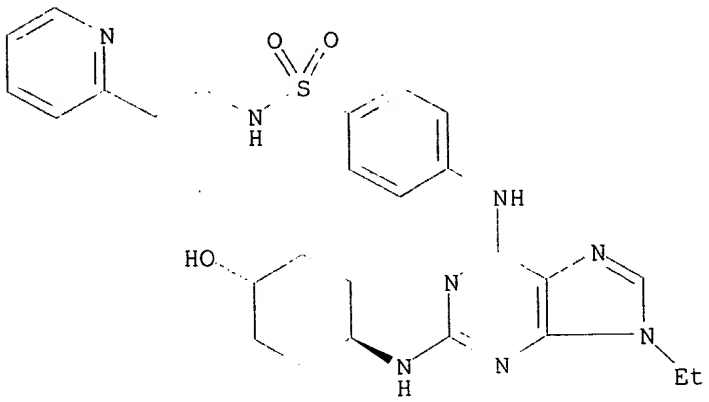
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-

Searched by: Mary Hale 308-4258 CM-1 12D16

9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 81 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-22-7 REGISTRY
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-[2-(2-pyridinyl)ethyl]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C26 H32 N8 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

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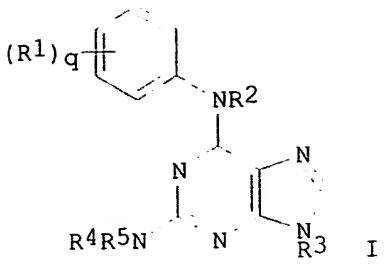
GI

Searched by: Mary Hale 308-4258 CM-1 12D16

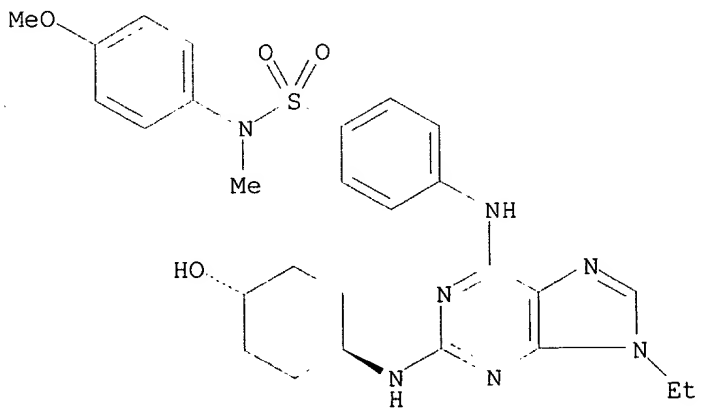


I

AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 82 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-21-6 REGISTRY
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-(4-methoxyphenyl)-N-methyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C27 H33 N7 O4 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

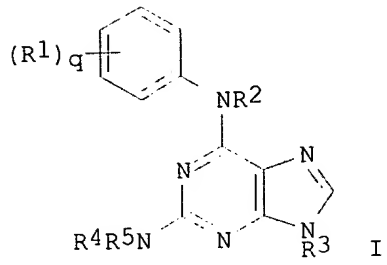
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase

Searched by: Mary Hale 308-4258 CM-1 12D16

pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI



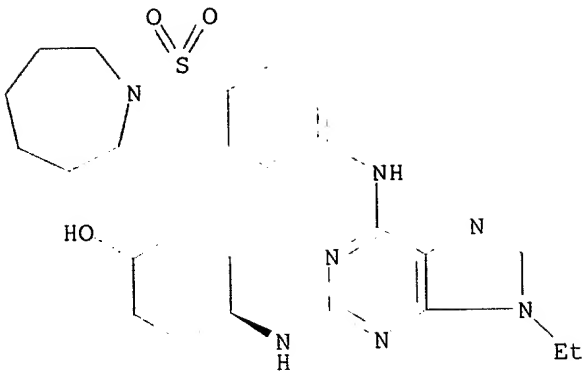
I

AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 83 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-20-5 REGISTRY
CN 1H-Azepine, 1-[[4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]sulfonyl]hexahydro- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C25 H35 N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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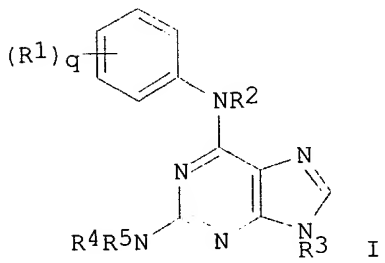


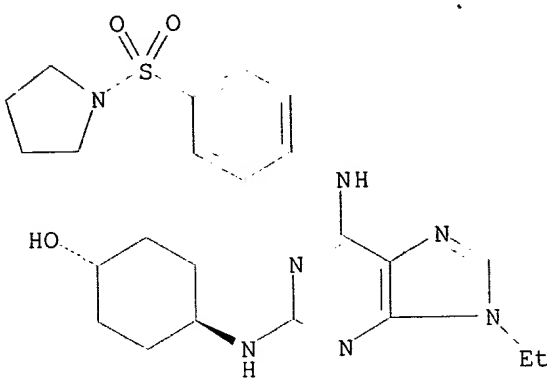
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-

Searched by: Mary Hale 308-4258 CM-1 12D16

9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 84 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-19-2 REGISTRY
CN Pyrrolidine, 1-[[4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C23 H31 N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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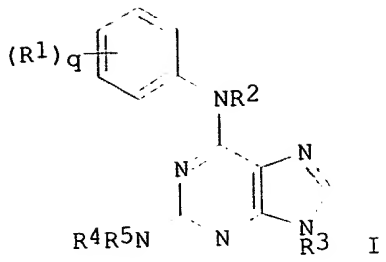
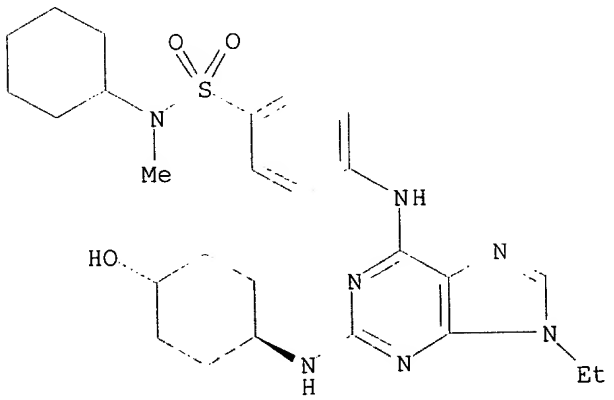
Searched by: Mary Hale 308-4258 CM-1 12D16



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 85 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-18-1 REGISTRY
CN Benzenesulfonamide, N-cyclohexyl-4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-methyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C26 H37 N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as

Searched by: Mary Hale 308-4258 CM-1 12D16

inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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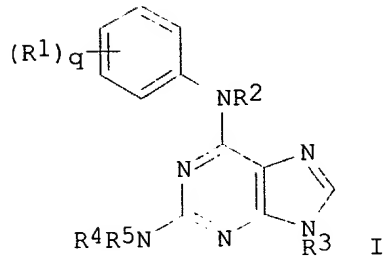

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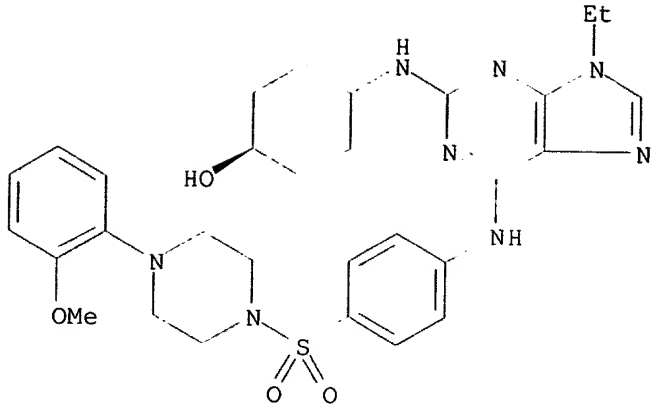
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 86 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-17-0 REGISTRY
CN Piperazine, 1-[[4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]sulfonyl]-4-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C30 H38 N8 O4 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16

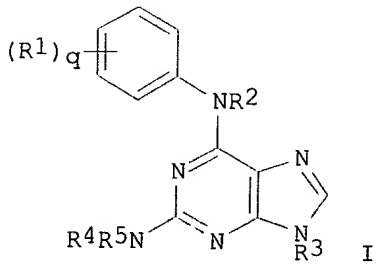


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI



I

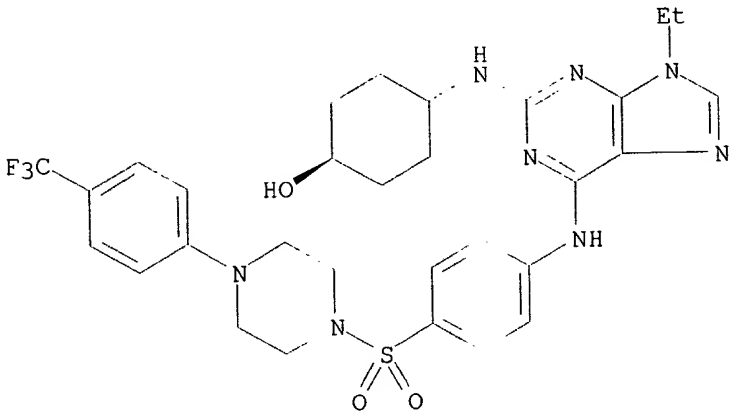
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus,

Searched by: Mary Hale 308-4258 CM-1 12D16

6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 87 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-16-9 REGISTRY
CN Piperazine, 1-[[4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]sulfonyl]-4-[4-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C30 H35 F3 N8 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

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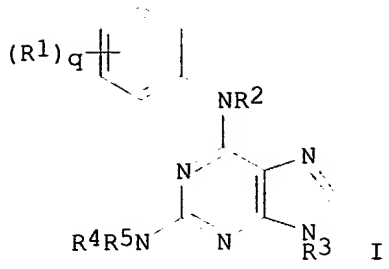
GI

Searched by: Mary Hale 308-4258 CM-1 12D16

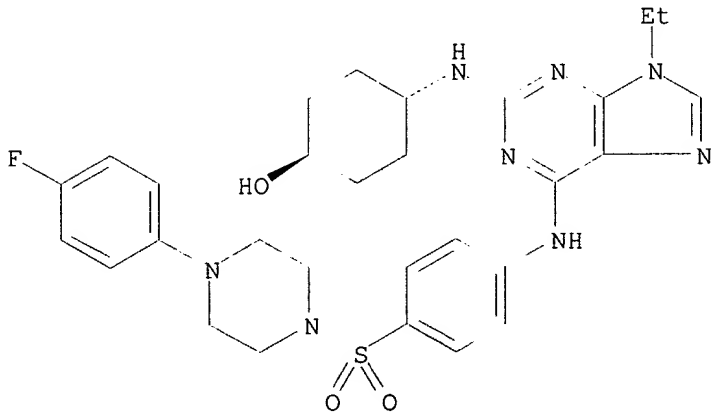


I

AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 88 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-15-8 REGISTRY
CN Piperazine, 1-[[4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]sulfonyl]-4-(4-fluorophenyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C29 H35 F N8 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

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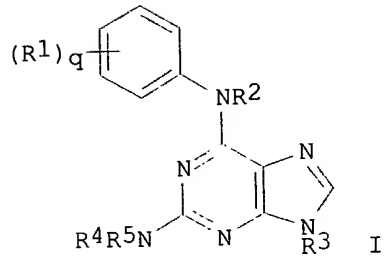
Searched by: Mary Hale 308-4258 CM-1 12D16

pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI



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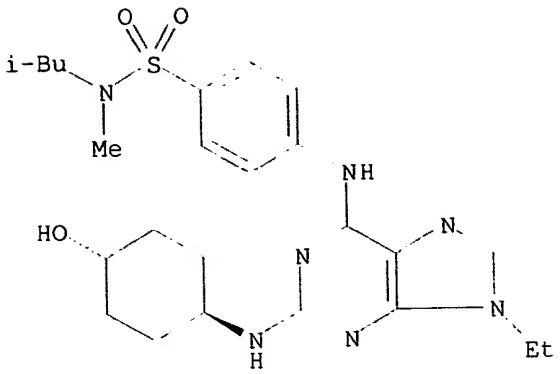
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 89 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-14-7 REGISTRY
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-methyl-N-(2-methylpropyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C24 H35 N7 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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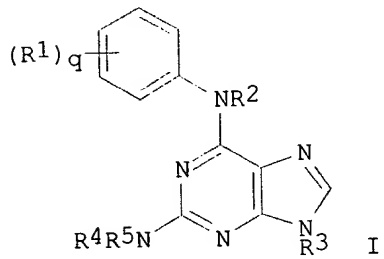


I

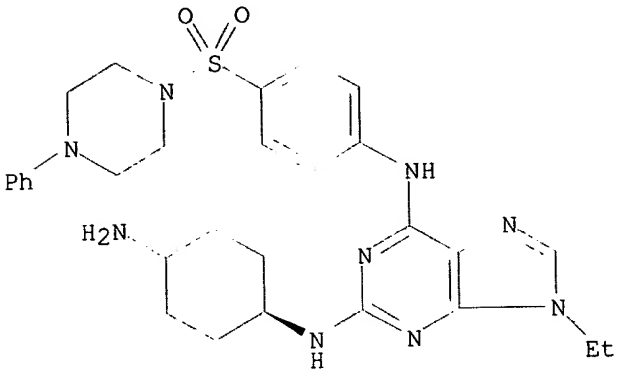
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-

Searched by: Mary Hale 308-4258 CM-1 12D16

9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 90 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-13-6 REGISTRY
CN Piperazine, 1-[[4-[[2-[(trans-4-aminocyclohexyl)amino]-9-ethyl-9H-purin-6-yl]amino]phenyl]sulfonyl]-4-phenyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C29 H37 N9 O2 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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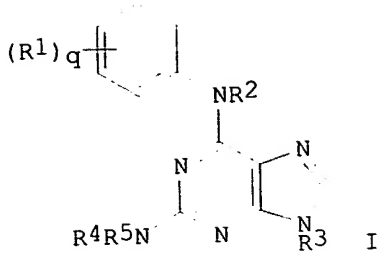
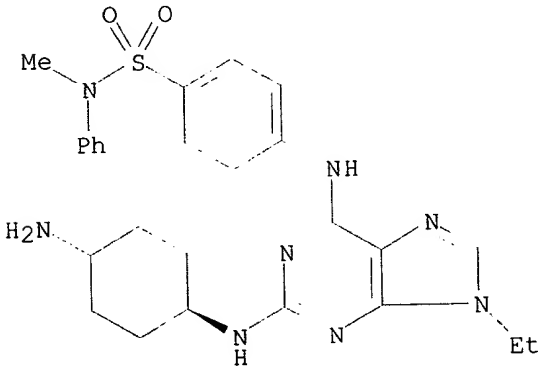
Searched by: Mary Hale 308-4258 CM-1 12D16



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 91 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-12-5 REGISTRY
CN Benzenesulfonamide, 4-[[2-[(trans-4-aminocyclohexyl)amino]-9-ethyl-9H-purin-6-yl]amino]-N-methyl-N-phenyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C26 H32 N8 O2 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg;

Searched by: Mary Hale 308-4258 CM-1 12D16

Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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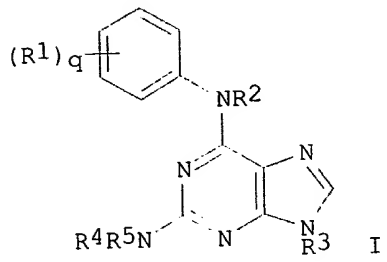

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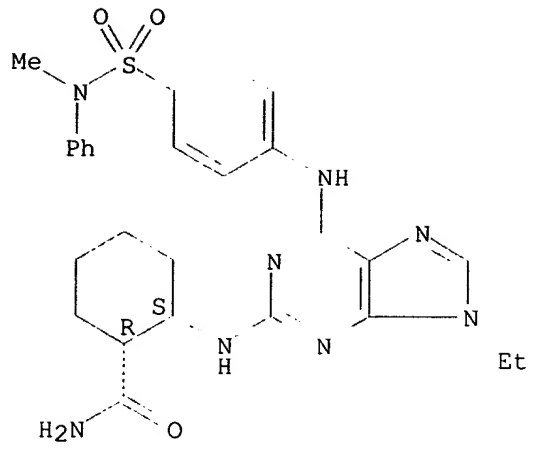
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 92 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-11-4 REGISTRY
CN Cyclohexanecarboxamide, 2-[[9-ethyl-6-[[4-[(methylphenylamino)sulfonyl]phenyl]amino]-9H-purin-2-yl]amino]-, (1R,2S)-rel- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C27 H32 N8 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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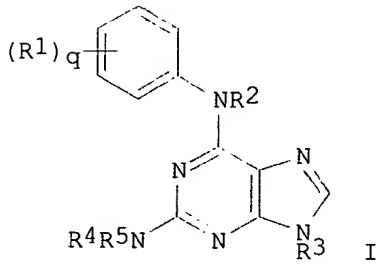

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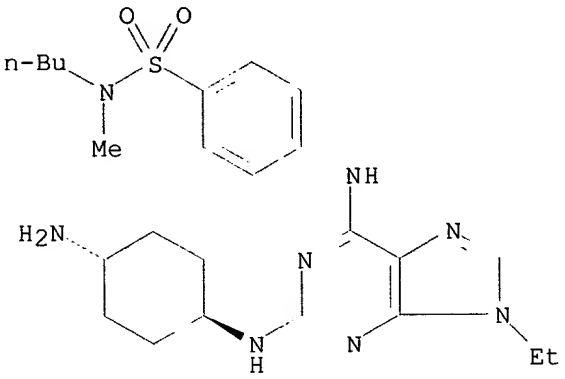
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl,

Searched by: Mary Hale 308-4258 CM-1 12D16

heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 93 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-10-3 REGISTRY
CN Benzenesulfonamide, 4-[[2-[(trans-4-aminocyclohexyl)amino]-9-ethyl-9H-purin-6-yl]amino]-N-butyl-N-methyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C24 H36 N8 O2 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



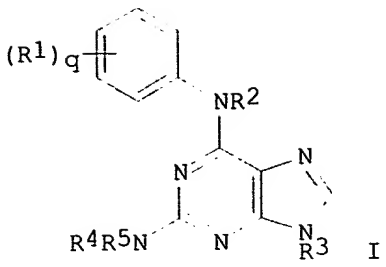
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI

Searched by: Mary Hale 308-4258 CM-1 12D16

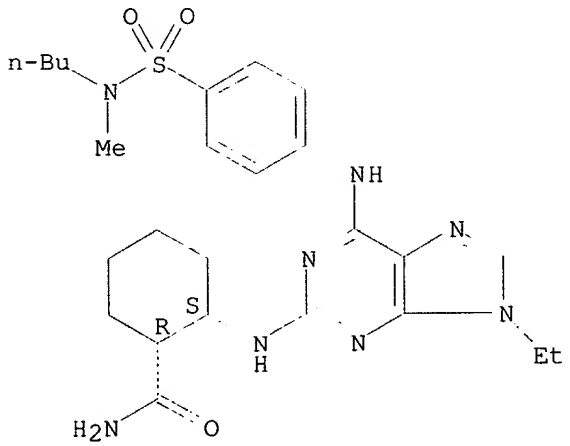


I

AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 94 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-09-0 REGISTRY
CN Cyclohexanecarboxamide, 2-[[6-[[4-[(butylmethylamino)sulfonyl]phenyl]amino]-9-ethyl-9H-purin-2-yl]amino]-, (1R,2S)-rel- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C25 H36 N8 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

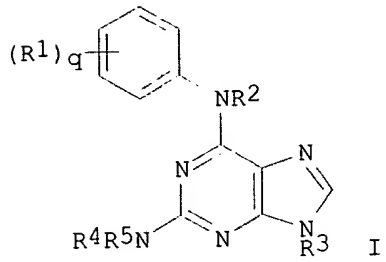
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as

Searched by: Mary Hale 308-4258 CM-1 12D16

inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI



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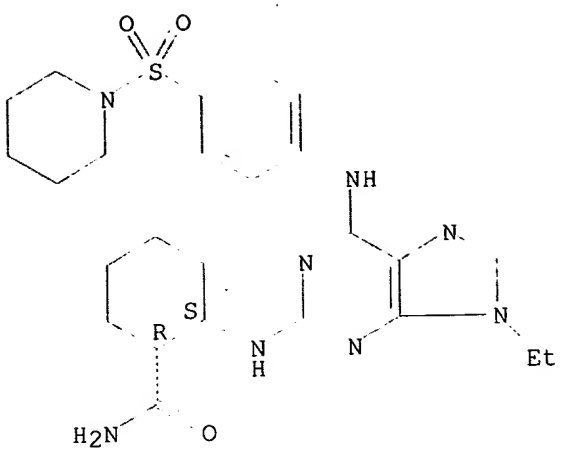
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 95 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-08-9 REGISTRY
CN Cyclohexanecarboxamide, 2-[[9-ethyl-6-[[4-(1-piperidinylsulfonyl)phenyl]amino]-9H-purin-2-yl]amino]-, (1R,2S)-rel- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C25 H34 N8 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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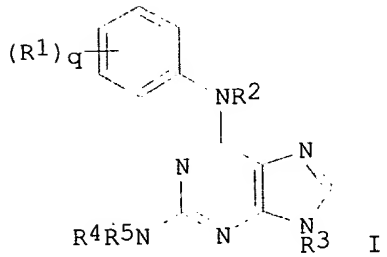


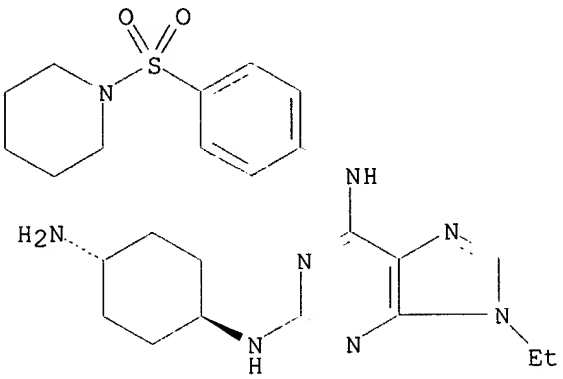
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl,

Searched by: Mary Hale 308-4258 CM-1 12D16

heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 96 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-07-8 REGISTRY
CN Piperidine, 1-[[4-[[2-[(trans-4-aminocyclohexyl)amino]-9-ethyl-9H-purin-6-yl]amino]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C24 H34 N8 O2 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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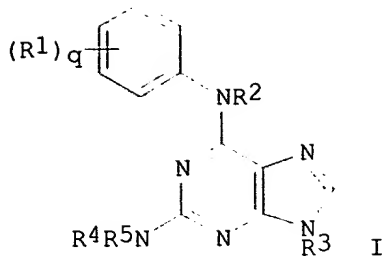
Searched by: Mary Hale 308-4258 CM-1 12D16



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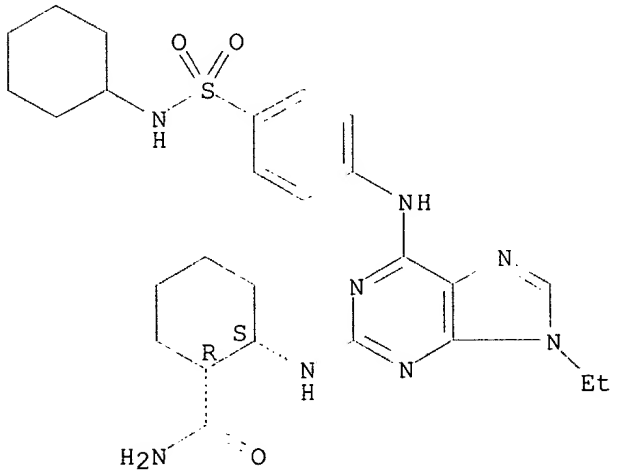
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 97 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-06-7 REGISTRY
CN Cyclohexanecarboxamide, 2-[[6-[[4-[(cyclohexylamino)sulfonyl]phenyl]amino]-9-ethyl-9H-purin-2-yl]amino]-, (1R,2S)-rel- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C26 H36 N8 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

Searched by: Mary Hale 308-4258 CM-1 12D16

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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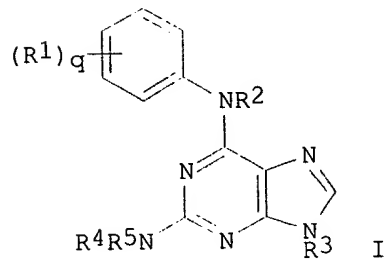

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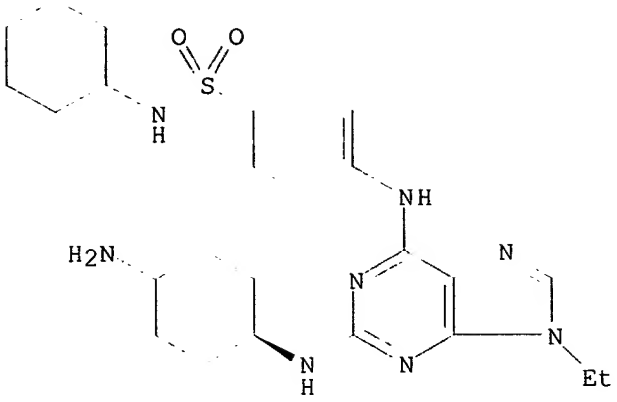
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 98 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-05-6 REGISTRY
CN Benzenesulfonamide, 4-[[2-[(trans-4-aminocyclohexyl)amino]-9-ethyl-9H-purin-6-yl]amino]-N-cyclohexyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C25 H36 N8 O2 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16

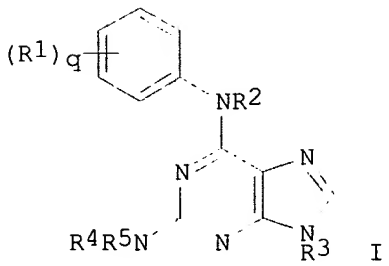


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI



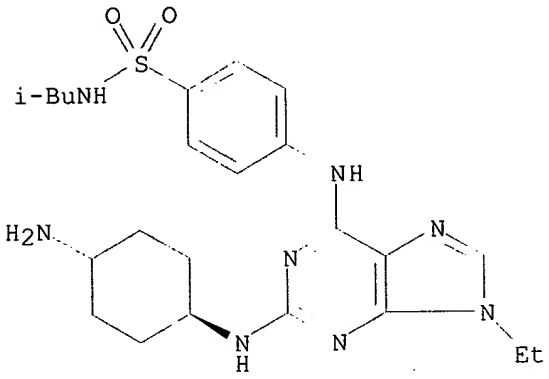
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus,

Searched by: Mary Hale 308-4258 CM-1 12D16

6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 99 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-04-5 REGISTRY
CN Benzenesulfonamide, 4-[[2-[(trans-4-aminocyclohexyl)amino]-9-ethyl-9H-purin-6-yl]amino]-N-(2-methylpropyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C23 H34 N8 O2 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



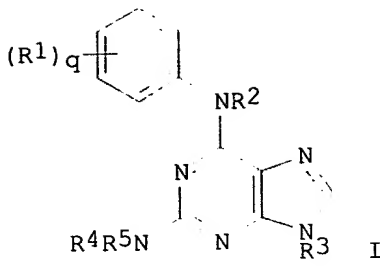
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI

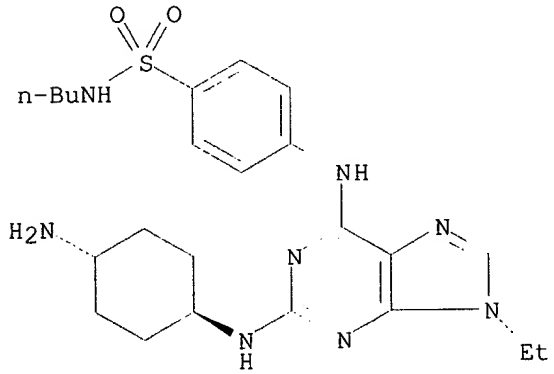
Searched by: Mary Hale 308-4258 CM-1 12D16



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 100 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-03-4 REGISTRY
CN Benzenesulfonamide, 4-[[2-[(trans-4-aminocyclohexyl)amino]-9-ethyl-9H-purin-6-yl]amino]-N-butyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C23 H34 N8 O2 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

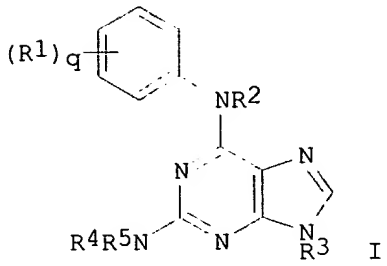
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg;

Searched by: Mary Hale 308-4258 CM-1 12D16

Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI



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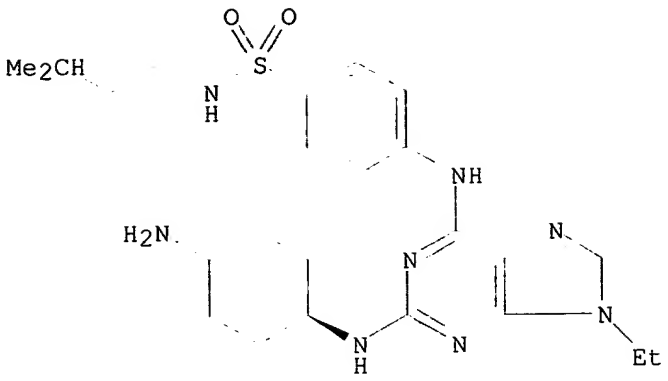
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 101 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-02-3 REGISTRY
CN Benzenesulfonamide, 4-[[2-[(trans-4-aminocyclohexyl)amino]-9-ethyl-9H-purin-6-yl]amino]-N-(3-methylbutyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C24 H36 N8 O2 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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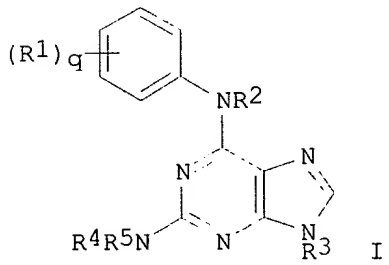


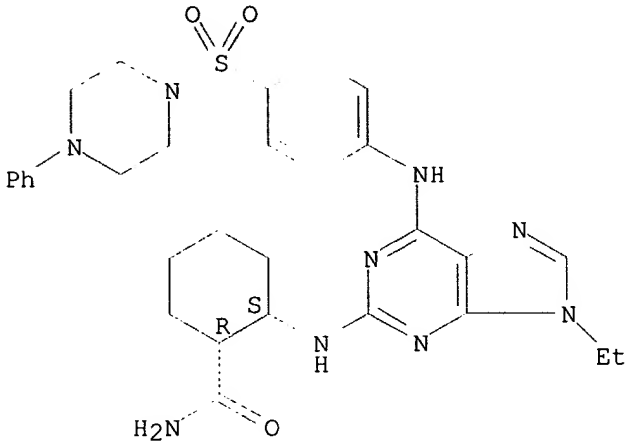
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-

Searched by: Mary Hale 308-4258 CM-1 12D16

9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 102 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-01-2 REGISTRY
CN Cyclohexanecarboxamide, 2-[[9-ethyl-6-[[4-[(4-phenyl-1-piperazinyl)sulfonyl]phenyl]amino]-9H-purin-2-yl]amino]-, (1R,2S)-rel- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C30 H37 N9 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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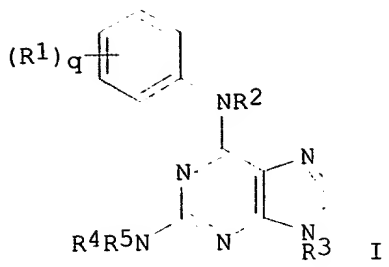
Searched by: Mary Hale 308-4258 CM-1 12D16



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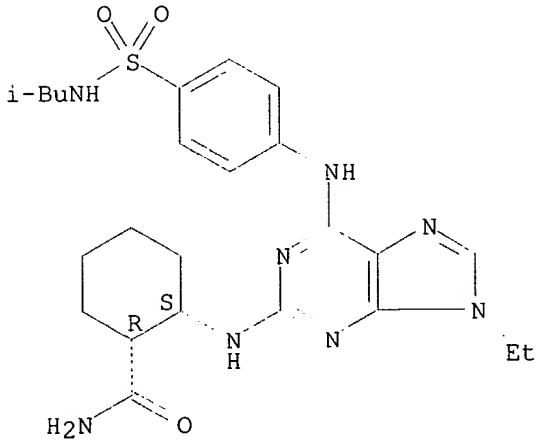
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 103 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289479-00-1 REGISTRY
CN Cyclohexanecarboxamide, 2-[[9-ethyl-6-[[4-[[(2-methylpropyl)amino]sulfonyl]phenyl]amino]-9H-purin-2-yl]amino]-, (1R,2S)-rel- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C24 H34 N8 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

Searched by: Mary Hale 308-4258 CM-1 12D16

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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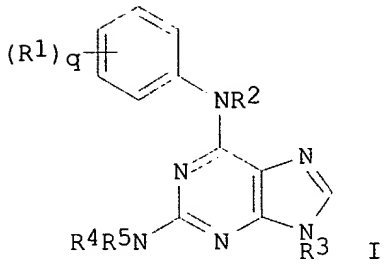

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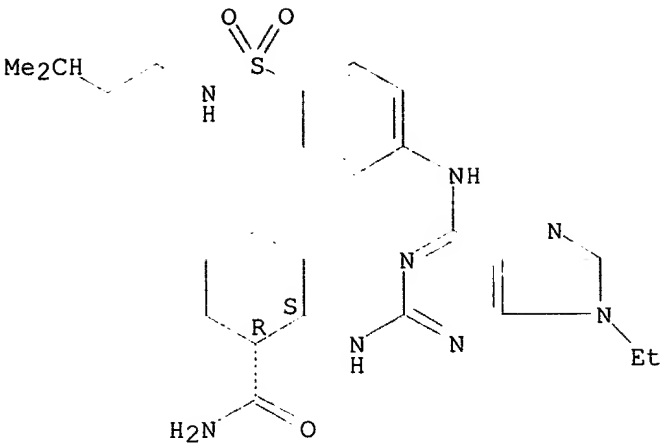
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 104 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289478-99-5 REGISTRY
CN Cyclohexanecarboxamide, 2-[[9-ethyl-6-[[4-[[(3-methylbutyl)amino]sulfonyl]phenyl]amino]-9H-purin-2-yl]amino]-, (1R,2S)-rel- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C25 H36 N8 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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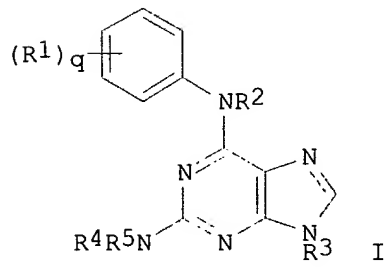


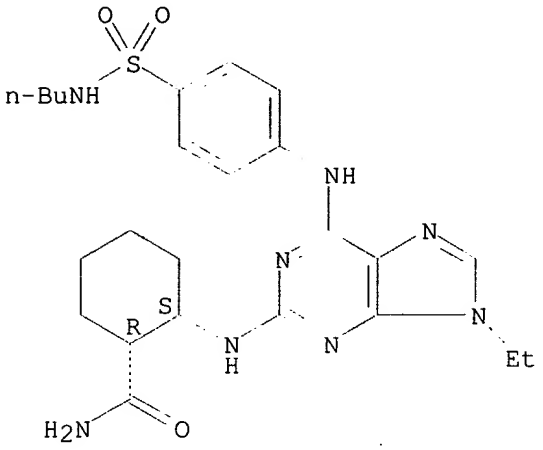
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl,

Searched by: Mary Hale 308-4258 CM-1 12D16

heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 105 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 289478-98-4 REGISTRY
CN Cyclohexanecarboxamide, 2-[[6-[[4-[(butylamino)sulfonyl]phenyl]amino]-9-ethyl-9H-purin-2-yl]amino]-, (1R,2S)-rel- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C24 H34 N8 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

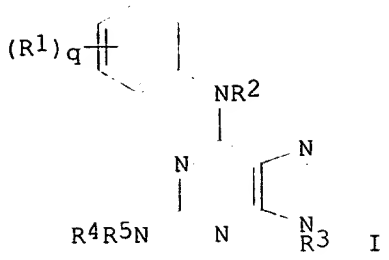


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.
GI

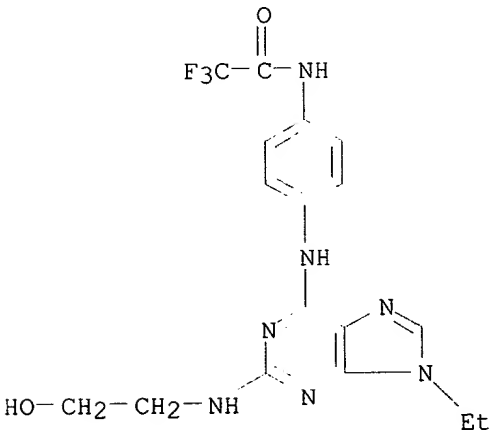
Searched by: Mary Hale 308-4258 CM-1 12D16



I

AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 106 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 190654-74-1 REGISTRY
CN Acetamide, N-[4-[[9-ethyl-2-[(2-hydroxyethyl)amino]-9H-purin-6-yl]amino]phenyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H18 F3 N7 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 127:34237 Preparation of purine derivatives. Zimmermann, Juerg; Capraro, Hans-Georg; Peterli, Patricia; Furet, Pascal (Novartis Ag,

Searched by: Mary Hale 308-4258 CM-1 12D16

Switz.; Zimmermann, Juerg; Capraro, Hans-Georg; Peterli, Patricia; Furet, Pascal). PCT Int. Appl. WO 9716452 A1 19970509, 97 pp. DESIGNATED STATES: W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1996-EP4573 19961022. PRIORITY: CH 1995-3094 19951101; CH 1996-2213 19960910.

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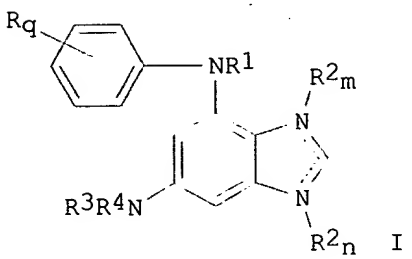
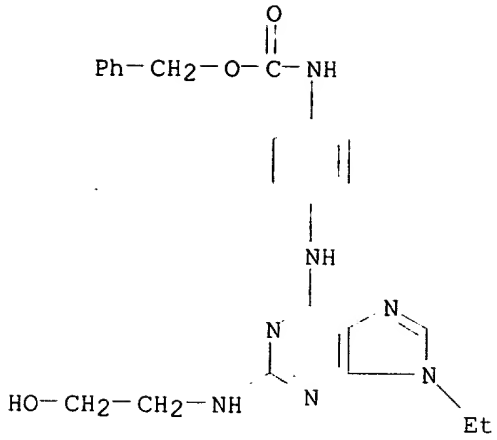


I

AB 2-Amino-6-anilino-purine derivs. I (R = halo, alkyl, HO, alkanoyloxy, alkoxy, substituted alkoxy, carboxyl, alkoxycarbonyl, carbamoyl, amino, aminosulfonyl, F3C; R1 = H, carbamoyl, alkylcarbamoyl; R2 = alkyl, Ph, substituted Ph; R3 = H, amino, phenylamino, alkylamino, HO, phenoxy, alkoxy, acyl, carbocyclic radical, or heterocyclic radical; R4 = amino, OH, phenoxy, alkoxy, acyl, substituted hydrocarbon radical, carbocyclic radical, or heterocyclic radical; R3R4 may form a ring; m and n are 0, 1; q = 1-5) were prepd. These compds. inhibit p34cdc2/cyclin Bcdc13 kinase and can be used for treatment of hyperproliferative diseases, for example tumor diseases (no data). Thus, 2-chloro-6-(3-chlorophenylamino)-9-ethyl-9H-purine, prepd. in two steps from 3-chloroaniline and 2,6-dichloropurine, was treated with ethylenediamine to give 2-(2-aminoethylamino)-6-(3-chlorophenylamino)-9-ethyl-9H-purine.

L7 ANSWER 107 OF 107 REGISTRY COPYRIGHT 2002 ACS
RN 190654-72-9 REGISTRY
CN Carbamic acid, [4-[[9-ethyl-2-[(2-hydroxyethyl)amino]-9H-purin-6-yl]amino]phenyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C23 H25 N7 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Searched by: Mary Hale 308-4258 CM-1 12D16

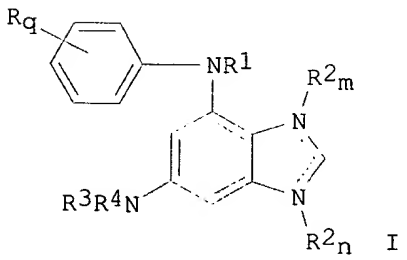


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 127:34237 Preparation of purine derivatives. Zimmermann, Juerg; Capraro, Hans-Georg; Peterli, Patricia; Furet, Pascal (Novartis Ag, Switz.; Zimmermann, Juerg; Capraro, Hans-Georg; Peterli, Patricia; Furet, Pascal). PCT Int. Appl. WO 9716452 A1 19970509, 97 pp. DESIGNATED STATES: W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1996-EP4573 19961022. PRIORITY: CH 1995-3094 19951101; CH 1996-2213 19960910.

GI



AB 2-Amino-6-anilino-purine derivs. I (R = halo, alkyl, HO, alkanoyloxy, alkoxy, substituted alkoxy, carboxyl, alkoxycarbonyl, carbamoyl, amino, aminosulfonyl, F3C; R1 = H, carbamoyl, alkylcarbamoyl; R2 = alkyl, Ph, substituted Ph; R3 = H, amino, phenylamino, alkylamino, HO, phenoxy, alkoxy, acyl, carbocyclic radical, or heterocyclic radical; R4 = amino, OH, phenoxy, alkoxy, acyl, substituted hydrocarbon radical, carbocyclic radical, or heterocyclic radical; R3R4 may form a ring; m and n are 0, 1; q = 1-5) were prepd. These compds. inhibit p34cdc2/cyclin Bcdc13 kinase and can be used for treatment of hyperproliferative diseases, for example tumor diseases (no data). Thus, 2-chloro-6-(3-chlorophenylamino)-9-ethyl-9H-purine, prepd. in two steps from 3-chloroaniline and

Searched by: Mary Hale 308-4258 CM-1 12D16